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MUNICIPAL DOCUMENT FOR 1912

OF THE

CITY OF BEVERLY, MASS.

CONTAINING THE

ANNUAL REPORTS

FOR THE YEAR,

THE

ADDRESS OF THE MAYOR

AND THE

ORGANIZATION OF THE CITY GOVERNMENT FOR THE YEAR 1913

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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HARVARD UNIVERSITY
AUG 22 1945
GRADUATE SCHOOL
OF PUBLIC ADMINISTRATION

PREPARED UNDER THE DIRECTION

OF THE

STANDING COMMITTEE ON PRINTING

CONSISTING OF

Alderman CHARLES H. HULL

Alderman WILLIAM C. BLAISDELL

Alderman JEREMIAH F. BROWN

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CITY DOCUMENT, No. 117, 1913

CITY OF BEVERLY

IN BOARD OF ALDERMEN

JANUARY 27, 1913.

Ordered:

That the Standing Committee on Accounts and Printing be and they are hereby authorized and directed to have printed the Mayor's Inaugural Address, and the Annual Reports of the several Departments, Boards and Officers for the year 1912, any and all expense to be taken from and charged to the appropriation "Printing."

IN BOARD OF ALDERMEN

FEBRUARY 10, 1913.

Order read once and passed to a second reading.

FEBRUARY 24, 1913.

Read a second time, and adopted.

LUTHER S. HERRICK, *Clerk.*

Approved, February 27, 1913.

HERMAN A. MACDONALD, *Mayor.*

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INAUGURAL ADDRESS

OF

HON. HERMAN A. MACDONALD

MAYOR OF BEVERLY

AT THE

INAUGURATION OF THE CITY GOVERNMENT

JANUARY 6, 1913

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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CITY DOCUMENT, No. 20, 1913

CITY OF BEVERLY

IN BOARD OF ALDERMEN

JANUARY 6, 1913.

Ordered:

That the thanks of the Board of Aldermen be and the same is hereby given to His Honor the Mayor for his Inaugural Address and a copy of the same is requested for publication in the City Document.

IN BOARD OF ALDERMEN

JANUARY 6, 1913.

Order unanimously adopted.

LUTHER S. HERRICK, *Clerk.*

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INAUGURAL ADDRESS

OF

HON. HERMAN A. MACDONALD

JANUARY 6, 1913.

Gentlemen of the Board of Aldermen:

With a deep sense of gratitude to the citizens of Beverly, and a strong determination to carry out what I sincerely believe to be their wishes, I pledge my best efforts to secure for this city of which we are so proud, and justly so,—clean, honest, and efficient government. The executive department, however, is only one branch of our city government. You gentlemen composing the Board of Aldermen, constitute the other branch. I ask for your co-operation and promise you mine in the solution of the problems which lie before us.

From the days when Beverly was first settled, it has grown and prospered, until it has become one of the important cities of the Commonwealth, and widely known throughout the nation. It has before it in the years yet to come great opportunities. Its commercial and industrial activities could and ought to be increased to a very large extent. Many other advances should come, and undoubtedly will in different lines of achievement. The two things essential to this development are sound government and the hearty co-operation of the public with the city administration. The business men of the city, together with our summer residents, who have not only shown an interest in the city affairs, but have also contributed very materially to its advancement and success, can also be of much assistance.

COMMITTEES OF THE BOARD OF ALDERMEN

After careful consideration, I have become convinced that the Board of Aldermen is burdened with too many committees,

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thereby making its procedure too cumbersome. I respectfully recommend that there be appointed just three committees: a Committee on Finance, a Committee on Streets and Sidewalks, and a Committee on Claims, Licenses, and Ordinances. The Committee on Finance could hear all matters of a financial nature, not provided for otherwise, and advertise for bids, except in cases where it might be otherwise delegated by the City Charter or ordinance. The nature of the matters which would properly come before the Committee on Streets and Sidewalks is sufficiently indicated by the title. This is also true of the Committee on Claims, Ordinances, and Licenses. The committees which should therefore, in my opinion, be abolished are as follows: Committee on Accounts and Printing; Committee on Police and Building Permits; so much of the Committee on Streets, Sidewalks, and Sewers, as relates to sewers, electric wires, and street railways; Committee on Fire Department, Fuel and Street Lights; the Committee on Elections and Returns, Rules and Orders; the Committee on Public Property; the Committee on State and Military Aid. The fundamental reason in my opinion why the above-named committees should be abolished is that the business of the city can be well conducted without needless committees. It is too apparent for argument that needless committees must find something to do, and that something the wasteful expenditure of the city's money.

Take, for instance, the Committees on Police and Fire Departments. These committees are not only unnecessary, but detrimental to the proper execution of the work of these departments. I feel sure that the cost of maintenance could also be made less by the abolition of these two committees. The Committee on Accounts is not necessary. Make the head of each department approve and be responsible for all bills of his department. The Auditor and then the Mayor would act as a check. Practically all the work is now done by the Auditor. The Auditor is also clerk of the Finance Committee, the most important committee of the City Government. Not a single bill or account has been refused payment by the Committee on Accounts, I am informed by members of the Committee of last year.

In regard to printing, let each department be responsible for its own printing, and let the City Clerk have charge of the arrangement of the City Document, subject to the orders of the

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Board. This is practically the way this matter is handled now, so what need is there of a Committee on Printing?

The work of the Committee on Fuel and Street Lights could well be taken over by the Committee on Finance. Military and State Aid can be handled by the City Clerk's office. I do not believe there is any need of a Committee on Public Property, or a Committee on Elections and Returns, Rules and Orders. In another year, I believe it will be advisable to abolish the Committee on Streets and Sidewalks, especially with a reorganization of the Street Department and City Engineer's Department.

The heads of departments should be held responsible, and when incompetent, others should be appointed or elected in their stead. In this way, the constant friction and division of responsibility is avoided.

There is a middle ground between the commission form of government and our present form which I am trying to reach in the abolition of certain committees, and in which the efficiency of commission government is attained, and yet true representative government still retained.

CLERK OF COMMITTEES

I also strongly recommend the abolition of the office of Clerk of Committees. This is the most talked-of and most criticised office in City Hall, and the least essential to the city's welfare. If the Legislature of a great Commonwealth like Massachusetts can conduct its business by having a member of each committee act as clerk, why cannot the Board of Aldermen of this city do likewise, and have a member of each committee act as clerk? Or, if the Board deems a Clerk of Committees necessary, engage some young man at a compensation of $150 to $200 per year for this work.

CALENDAR FOR MEETINGS OF BOARD OF ALDERMEN

I also recommend for your consideration the adoption of a calendar for each meeting of the Board and a regulation that all orders, resolves, or ordinances be filed with the City Clerk by twelve o'clock noon, on the day of the meeting of the Board.

This will insure against the adoption of hastily and carelessly framed orders, and is a more business-like and systematic way of

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doing the city's business. A two-third's rule could be adopted for emergency orders.

FINANCE

The next subject for our consideration is the finances of our municipality. The appropriation for the current expenses of the present year was made by the City Government of last year.

The financial condition of the city is good, as shown by the statement of the City Treasurer, annexed to this message, and to which I invite your careful attention. No good purpose is served by reading columns of statistics at this time.

The city has handled its financial problems, on the whole, carefully, and no evidence of such unsound financial practices as have been found in some other municipalities can be cited against Beverly. There is, nevertheless, an opportunity for improvement in the matter of a proper classification of receipts and expenditures, so that the accounts of the city's financial officers will standardize with the up-to-date, scientific systems which are now being installed in other cities of the Commonwealth by the Bureau of Statistics under a recent act of the Legislature.

The advantages which would accrue from having the annual budget and appropriations made on a basis which could be compared with the budgets of other cities, and so that revenue receipts from various sources and expenditures for specified purposes could be compared with those of other cities, are, I think, obvious. At the present time, even in the case of cities whose accounting systems may furnish adequate safeguards, it is extremely difficult, where the accounts have not been standardized, for administrative officials to make intelligent comparisons of the transactions of their own cities with those of other municipalities, because of a lack of uniformity in the methods of making appropriations and keeping accounts. For example, a comparison of expenditures for schools in two different municipalities, based upon appropriations, would clearly be misleading if, in one case, the expenditures covered the cost of medical inspection of school children, while in another, this expense is met from the appropriation for the Board of Health. Similar illustrations might be cited almost indefinitely. Uniformity in municipal accounts in the classification of items and the preparation of summaries, and

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the use of uniform language in referring to identical things is essential to intelligent comparisons as between cities.

Already ten of the thirty-two cities of the Commonwealth, outside of Boston, have petitioned the Bureau of Statistics, through their city governments, for the installation of an accounting system which will place them upon a uniform basis in this matter, namely,—Brockton, Haverhill, Lawrence, Lynn, Melrose, Newton, Quincy, Springfield, Taunton and Woburn. This list includes certain cities, the soundness of whose financial condition is not questioned, and whose accounts, judging solely from the standpoint of the individual city itself, may be kept in such a manner as to call for little criticism. They have, however, recognized the importance and the ultimate value to themselves which will result from a general standardizing of the accounts of all our cities. Beverly, desirous of keeping abreast of the times in all matters which make for civic efficiency, should place herself in line with this progressive movement.

There is a strong belief, among some people, that government must be less honest and less competent than private business, and although this has too often been the case, let us strive to make it less so in the future of this city.

Many opportunities exist, I believe, for the city to receive a greater return for money expended than it receives today.

STREETS, SIDEWALKS AND SEWERS

Let us now give our attention to the subject of streets, sidewalks, and sewers. The city is not getting the results it ought to for the money expended in these departments. The streets and sidewalks in many places are in very bad condition, and the money which should have been expended in making repairs really needed has been expended in places and for purposes wholly unnecessary. There should be some method of systematic street and sidewalk construction followed, so that the city can accomplish something of a permanent character along this line. To this end, I recommend most earnestly that the office of City Engineer and Superintendent of Streets be consolidated into one department, with a sufficient salary to attract for its head the services of a very competent engineer. The city could well afford to pay such a man a substantial salary, and he would, in the end, I am sure, save his salary many times.

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I recommend that the sewers be placed under the control and management of the Water Department. Quite a considerable saving could be made on the cost of sewer connections by this consolidation. At the present time, in the city proper, three separate connections are made for each new house; sewer, water and gas. A proper method would be to put the sewer in first at the lower grade, and lay at either side and at a higher grade the water and gas connections. This would be much cheaper for the city, and by charging the Gas Company for the use of the city trench, a still further saving would be made, with the added advantage of only opening the street up once for each piece of property in the city. There are other reasons for this change which must be apparent to men who give the subject any consideration whatever.

I do not believe it will be necessary for the city to do much sewer construction during the present municipal year.

SCHOOL DEPARTMENT

The School Department is carefully and efficiently managed, I am sure, through the School Committee and the Superintendent of Schools. It seems to me, however, that this is such an important department of city work, and the expenditures are so large, that special consideration should be given every new project considered in connection with the work of this department. I do not believe that in the past good judgment has always been exercised in the construction of school houses.

The Industrial School is a great asset to the city, and a credit to those whose efforts made it possible.

The Evening School fills a place in the scheme of education which is essential to a city with a cosmopolitan population like that of Beverly.

CHARTER AMENDMENT

It appears to me that the provision in the City Charter which provides that contracts be advertised for three days, should be amended so that all contracts of one thousand dollars, or over, be advertised fifteen days prior to the opening of the bids. And that all contracts of one hundred dollars to one thousand, be advertised for at least three days before the opening of bids.

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BATHING FACILITIES

It has become quite apparent that proper bathing facilities ought to be established at the Dane Street Beach. It seems unreasonable for the city not to provide this relief to the children and others during the extreme heat of the summer months. That the present facilities are totally inadequate is beyond question, and I suggest that the Board take this matter under consideration as soon as possible.

WATER SUPPLY

Another question which is of vital importance to the city is that of an adequate water supply. I cannot help but believe that an early settlement of this question is essential both to Beverly and Salem. Continual agitation in both cities, and before the Legislature, is costly. This question is a practical business question, and should be decided without regard to sentiment. There is no reason why the present legislature, with all the facts before it, should not settle the whole matter this year.

I have not in this message made it a point to state something about every department of the city, as has been the custom in the past. Each department makes its own report and it is unnecessary for me to state something which will be covered more fully later in the reports of the different departments.

CONCLUSION

Members of the Board of Aldermen:

We have been entrusted with the government of this city for the current year, not to practice political strategy, but to promptly and efficiently administer the city's business.

The oath of office which we have taken today is no mere formality. It is our solemn pledge to fulfil a trust, and it should so be considered. The sobering influence of official responsibility should characterize our actions always. Let us make reforms where reforms are necessary, but also let us be sane and practical in our attempts. Man's service for his country fills the brightest pages of our nation's history, and kindles anew the love of country. Why should this not also be true of service for one's city?

Let us be true to our obligation.

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FOLLOWING IS THE FINANCIAL STATEMENT OF THE CITY TREASURER

Gross Debt, January 1, 1912		$1,203,950 00
Issued during the year as follows:		
Schoolhouse Site Loan, 1911	$20,000 00	
Public Library Loan, 1911	110,000 00	
Sewer Loan (Notes in anticipation of issue of bonds), 1912	100,000 00	
Public Park Loan, 1912	28,000 00	
Street Loan (Highway Loan No. 2), 1912	19,000 00	277,000 00
Total Gross Debt		$1,480,950 00

Notes and Bonds paid and cancelled during the year are as follows:

Water Loan, 1903	$2,000 00
Water Loan, 1905	4,000 00
Water Loan, No. 1, 1910	2,000 00
Sewer Loan, 1893	4,000 00
Sewer Loan, 1900	4,000 00
Sewer Loan, 1903	4,000 00
Sewer Loan, 1906	7,000 00
Sewer Loan, No. 2, 1907	2,000 00
Sewer Loan, No. 3, 1907	1,000 00
Sewer Loan, No. 6, 1908	5,000 00
Sewer Loan, No. 1, 1909	3,000 00
Sewer Loan, No. 2, 1909	2,000 00
Sewer Loan, No. 1, 1910	3,000 00
Sewer Loan, No. 2, 1910	2,000 00
Ward 4 Sewer Loan, 1911	3,000 00
Sewer Loan, No. 2, 1911	3,000 00
Sewer Loan, No. 3, 1911	3,000 00
Sewer Loan, No. 4, 1911	3,000 00
School Loan (Farms), 1902	3,000 00
School Loan, 1903	5,000 00
School Loan, 1905	7,000 00
School Loan (General), 1905	1,000 00
School Loan, 1907	2,000 00

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School Loan, 1909	$2,000 00	
School Loan (Washington), 1910	5,000 00	
Schoolhouse Site Loan, 1911	2,000 00	
Park Loan, 1896	2,000 00	
Public Park Loan, 1906	1,000 00	
Ward 1 Playground Loan, 1910	1,000 00	
Dredging Loan, 1903	3,000 00	
Dredging Loan, A, 1903	1,000 00	
Fire Loan, 1906	2,000 00	
Bridge Loan, 1909	3,000 00	
Public Library Loan, 1909	2,000 00	
City Hall Imp. Loan, 1910	2,000 00	
Police Signal Loan, 1911	4,250 00	
Street Loan, 1903	3,000 00	
Street Loan, 1908	3,000 00	
Public Library Loan, 1911	6,000 00	
Sewer Loan (Note anticipation of issue), 1912	50,000 00	
Total	$167,250 00	
Balance Gross Debt December 31, 1912	1,313,700 00	
	$1,480,950 00	
Gross Debt December 31, 1912		$1,313,700 00
Less Sinking Fund (estimated)		124,051 94
Net Debt		$1,189,648 06
Loans authorized but not negotiated are as follows:		
Sewerage Loan, No. 1, 1912, (Less Note for $50,000 00 outstanding issued in anticipation of same, reckoned herein)	$110,000 00	
School Loan, 1912	95,000 00	
Supplementary School Loan, 1912	10,000 00	
Street Loan, 1912	35,000 00	$250,000 00
Total Net Debt and loans authorized		$1,439,651 39
Increase		235,701 39
Temporary Loans Outstanding		100 000 00

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EIGHTEENTH ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

JANUARY 13, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk*.

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In Memoriam

FRED C. DODGE

The School Committee at their regular meeting in May desired to express their appreciation of the services of the late Fred C. Dodge as a former member of the Board, especially as chairman. A committee was appointed to attend to this matter.

They would have it known to all men that he was a very capable, efficient member, thoroughly interested in the schools, and did much during his term of service to bring the schools to their present state of efficiency.

That he was many-sided and worked along many lines to promote the good of the schools;

That what he attempted, he carried through victoriously to the end;

That he gave fully of his time, his energy, his ability;

That we recognize his worth in this public service, and that we mourn his early departure, as the world needs such earnest lives devoted to the public good.

We, the undersigned committee, would tender this report, asking that it be put on the records, be printed in the Beverly papers, and a copy sent to Mrs. Dodge.

BENJAMIN HUNTOON,
LEONARD B. MOULTON,
MARY B. SMITH.

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Report of the Collector of School Savings.

Report of the Statistician.

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CITY DOCUMENT, No. 25, 1913

REPORT OF SCHOOL COMMITTEE

To the Honorable, the Mayor, and Board of Aldermen of Beverly:

GENTLEMEN:—Herewith please find the Annual Report of the Superintendent of Schools and heads of the School Department, to which is invited your careful reading and consideration.

The year 1912 in the School Department has been one of very satisfactory results. Everything has worked in harmony and a good year's work has been accomplished. The Manual Training and Domestic Science work at the Washington building has reached the point where the committee feels that the time and energy put into it has counted for something. The excellent graduation exercises of the Beverly Independent Industrial School held December 18th show to the public what a great thing manual and industrial education has become and will be in the future.

Our school quarters have been in a fair shape this year. The Prospect School has been very crowded. The lines of the district have had to be brought so far down from the McKay School that much inconvenience has been caused for the parents and children. In another year the opening of the new school on Rantoul St. will allow the lines to be drawn where they should be and will relieve the situation. The great difficulty to be overcome in the grade schools in the next few years is the Centerville and Rial Side Schools. Both of these schools are full, and many of the rooms have two teachers in them—a very unsatisfactory arrangement both for the teachers and for the children to do good work.

The High School is full to overflowing, and many of the pupils are having to sit in rooms poorly lighted and ventilated.

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Something must be done before another year. A committee has been appointed, but have no specific plans at present to obviate those conditions, but are at work on them. The committee appointed at the first of the year will report soon. We take this means of bringing this matter to Your Honor, to the Board of Aldermen and to the citizens of Beverly, so that when the details are worked out, the situation will be understood.

The Committee of 1912 are very much pleased with the support given them, the Superintendent, and his assistants, by Your Honor, the City Government, and by the citizens for the past year.

CHARLES A. BAKER,

For the School Committee.

December 31, 1912.

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REPORT OF THE SUPERINTENDENT OF SCHOOLS

1912

To the Board of School Committee of Beverly:

This is the twentieth annual report issued from the office of the Superintendent of Schools. It is my third report.

CHRONICLE

January 1.
- Organization of the Board.
- Standing Committees announced.

January 17.
- Teachers' lecture course established.

January 30.
- Pupils' Savings System instituted.
- Assistant Truant Officer elected.
- Rules of Procedure and Regulations adopted.
- Miss Sophia E. Corning appointed Bookkeeper.
- Miss Mildred F. Hurshman appointed Clerk.
- Improvement Society authorized to conduct School Gardens.

March 26.
- Improvement Society's offer to improve Washington School grounds accepted.

April 30.
- Patriotic exercises on Memorial Day determined upon.
- Award of contract for supplies.
- Annual election of teachers.
- Visitation at Washington School authorized.
- High School Committee for increased school accommodations requested from City Government.
- Differentiated work in grade eight extended to all pupils of the city.
- Agricultural Education assigned to consideration of a special committee.

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May 28.

Petition of Principals, Teachers, and Janitors for an increase in salary received.

Resolutions upon death of Mr. Fred C. Dodge, former chairman of the Board.

June 18.

Plans for school building on Lamson lot approved.

August 27.

Text-books in Language, History, and Physiology recommended for adoption.

Attendance of pupils in their district enforced.

September 24.

Report on tentative course of study in Language, and in Geography made by the Superintendent.

Budget for 1913 referred to the Finance Committee of the City Government.

Exhibit of work at Essex County Fair.

October 14.

October 1, 1912, Evening Schools opened.

Joint visitation of School Buildings by City Government and Board of School Committee.

October 29.

Preliminary report of special committee on extended High School accommodations made and accepted.

Attitude of Board on allowing school halls for political purposes determined.

Over age pupils in lower grades brought together at the Washington building.

Improvement Society voted co-operation in improvements at the Cove School grounds.

Investigation regarding employment of minors authorized.

Calendar for next school year adopted.

November 26.

Mixed grades room established at the Washington building.

December 31.

Report of Special Committee on School Accommodations made.

Annual School Report made.

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Teachers' Lecture Course

The teachers' lecture course established last year has been the source of much enjoyment and wholesome diversion. For the present and ensuing year the following program has been prepared:

Wednesday, November 13—"The Great Canals of the World"
Illustrated by Stereopticon (Panama)
JOHN E. MASTERS

Thursday, January 23—"Abraham Lincoln"
An Impersonation of the Great President
BENJAMIN CHAPIN

Thursday, March 20—"Our Wild Animal Neighbors"
Illustrated by Stereopticon
ERNEST HAROLD BAYNES

Thursday, April 17—Reading, "The Piper"
The Prize Play by an American at the Shakespeare Memorial at Stratford
MRS. CHRISTABEL KIDDER

Pupils' Savings System

The report of the pupils' savings system prepared by the special collector should receive your attention. This is one of the best departures your Board has authorized.

School Gardens

We are under obligations to the Beverly Improvement Society for their continued efforts with the children's gardens. At an exhibition of products from these gardens held at the Washington School building late in August, a very creditable display was made. Mrs. O. B. Gillis had charge of this work, and to her and her corps of assistants great credit belongs.

Another piece of positive benefit from the members of this

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society is the hedge at the entrances to the Washington building, and a line of trees around the grounds at the McKay building. We take this opportunity to express our appreciation of the interest which prompts these bits of constructive assistance.

Memorial Day Exercises.

General appreciation of the type of Memorial Day exercises initiated last year leads me to present in this report the program then presented. The exercises were held on the Common and all the school children of Beverly were assembled.

PROCESSION OF CHILDREN

SINGING—"Star Spangled Banner"
School Children

ADDRESS
Governor EUGENE NOBLE FOSS

SINGING—"Columbia the Gem of the Ocean"
School Children

ADDRESS
Department Commander GEORGE A. HOSLEY

SINGING—"America"
School Children

FLAG SALUTE
School Children

RECESSIONAL OF CHILDREN

As a concrete display of patriotic fervor and a picture long to be impressed upon the minds of the participants, it is a type of program worthy of repetition.

Course of Study

Complete but tentative courses in Arithmetic, Language, and Geography have been placed in the hands of the teachers.

Essex County Fair

At the Essex County Fair held in Topsfield last September certain exhibits were entered.

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The following prizes were awarded our department:

1912

PRIZES FOR WORK OF THE BEVERLY SCHOOLS—TOPSFIELD FAIR

Cup for exhibit as a whole.
Three First Prizes for Manual Training.
Three Second Prizes for Manual Training.
One First Prize for Sewing.
One Second Prize for Sewing.
One Third Prize for Sewing.
One Second Prize for School Garden Products.
One Third Prize for Book Binding.

Mixed Grades School-Room

The mixed grades school-room established at the Washington School for non-English speaking children of abnormal age in grades one to four is serving an excellent purpose—both to the pupils involved and the schools formerly concerned.

The policy of sending to the Washington School all children falling under the requirement of our attendance laws for illiterates, and allowing them to participate in the extended manual and domestic science courses has justified itself.

Entrance Age

A more careful consideration of the situation in parts of our city has lead me to revise my recommendation of a gradual change of entrance age requirements for Grade I to six years.

A Kindergarten Course should be established to take care of children younger than six, and raising the entrance age would better wait the establishment of these schools. All of the reasons for increasing the entrance age hold good and the added year of experience emphasizes the wisdom of such a course. A legitimate demand from sections of our city that provision be made for the care of children five years of age leads me to amend the recommendation of a year ago.

"Seed to Seed" Project

During the last year (Sept., 1911—Sept., 1912) the seventh grade pupils have been at work on a "seed to seed" project in connection with their science work and school gardening.

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These pupils brought a number of tomatoes to school in September. A number of lesson topics were based upon the tomato. The fruit was cut up, the seeds removed from the pulp and preserved. Boxes were made by the boys as a part of their manual work. Earth was brought to school, placed in the boxes, and early in the spring the seed, which had been secured the previous fall, was planted in these boxes by the pupils. The seedlings were taken home or sold by the pupils.

During the summer the pupils cared for such plants as were set out at their homes. All pupils were asked to keep a record of their work. Plants and fruit were marketed and in September some of the fruit was brought to school and canned by the girls in the domestic science work at the Washington School.

All of this work gave an excellent opportunity for practical discussion of practical things. Each written and oral language work was based upon its various phases. Considerable accurate information regarding plant life was obtained in this "seed to seed" experiment. Simple exercises in applied arithmetic were easily developed in making the boxes, laying out the garden, in marketing the product, and in keeping an account of the receipts. A sustained interest in all parts of the work was noticeable.

I submit the following table, which presents concisely the known results of this experiment.

	Number of Pupils Involved	Number of Tomato Plants Raised	Number of Plants Taken to Set Out	Amount of Fruit Gathered	Amount of Income
Bass River...	20	200	200	16 bu.	$1.83
McKay.....	21	180	126	..	..
Centerville...	4	36	24	219 tomatoes	0
Cove.....	9	75	75	11 bu.	3.23
Prospect.....	40	370	320	50 bu.	.90
Farms.....	..	..	..	..	..
Hardie.....	40	350	350	..	..
Rial Side....	21	36	30	..	..
South.....	85	150	150	..	..
Pleasant View,	..	..	..	..	..
Washington..	23	150	140	..	..
Total.....	263	1547	1415	77	$5.96

Remarks: Most of the fruit was used at home.

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In addition to the information given in the table the following abstracts from reports sent to the office from the schools are of special interest.

From Washington School

One boy sold two dozen plants.

One reports that from six plants he gathered two bushels of fruit, another that from twelve plants he gathered two pecks.

Several pupils lost their plants by giving them too much water.

From Rial Side School

One boy gathered one and one-half bushels of fruit from three plants.

From Bass River School

All whose plants were a success kept the date on which the first ripe tomato was found. Three pupils wrote down the dates with the amount gathered.

Additional facts which were reported to you and discussed by pupils.

1. Difference in tomatoes as to quantity of seeds.

2. Difference of time in getting plants as result of leaving the seed boxes covered or uncovered.

3. In the boxes in which there were fewer plants the stems and leaves were larger and stronger looking.

4. Some vines grew well, but did not produce as early or as much fruit as other smaller ones.

5. On September 27, twelve pupils exhibited tomatoes raised from the school plants. Mr. Brown selected the best one in his opinion and told the pupils its excellent features.

6. Peculiar shapes were taken by some fruit because of being crowded by other tomatoes in growing.

I am convinced that the school garden presents an excellent opportunity for stimulating interest, applying practical problems, and conveying much information. As a commercial enterprise, it will not pay large dividends. As an educational medium, when there is the inspiration of a good teacher, it is of great value.

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AGRICULTURAL COURSE

One of the departures which should be undertaken by our High School is that which would establish an Agricultural Course for the pupils of secondary age. The opportunity for such a course is not excelled in any High School, and the profit from such a course can not be doubted.

The following is an outline of vocational agricultural departments as presented by the Commonwealth:

Vocational Agricultural Departments in Selected High Schools

ENABLING LEGISLATION

The Massachusetts Legislature of 1911 passed an act codifying and amending the laws of this Commonwealth relating to State-aided vocational education.

This new law defines the term "Agricultural Education." It also outlines the duties and privileges of local committees and of the Massachusetts Board of Education in promoting the establishment and maintenance of this new type of vocational training.

Following are citations from, and tentative rulings under, this new statute:

AGRICULTURAL EDUCATION

"Agricultural Education shall mean that form of vocational education which fits for the occupations connected with the tillage of the soil, the care of domestic animals, forestry and other wage-earning or productive work on the farm."

STATE AID

Cities and towns maintaining approved departments in their local High Schools for this type of Agricultural Education

"Shall be reimbursed by the Commonwealth . . . to the extent of two-thirds of the salary paid to the instructors. . . ."

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STATE APPROVAL

Agricultural departments will be entitled to State Aid when, and so long as, they are approved by the State Board of Education as to

> "Organization, control, location, equipment, courses of study, qualifications of teachers, methods of instruction, conditions of admission, employment of pupils and expenditures of money."

Course of Study—Subject to Revision

Four Years

First Year:—English and another approved subject from the regular high school course.

Second Year:—English and another approved subject from the regular high school course.

Third Year:—English and a Science from the regular high school course.

Fourth Year:—English or History and Civics, and a Science from the regular high school course.

The agricultural student, if he so desires, may spend half his time at school in regular high school classes in the above-named subjects.

The above students are optional. The Agricultural Science and Projects outlined below are required of all students in the agricultural department who take the four-year course. A student may take agriculture for but one year, and even for a single month or week.

School Years Ending 1912, 1914, 1916, *and Other Even Years.*

First and Second Year Students, One Half School Time.

Agricultural Science and Projects applied to a given community:

Kitchen Gardening: Vegetables, small fruits.

Ornamental Planting: Shrubbery, flowering plants, lawns.

Farm Shop Work: Making and repairing for home and school use—hot beds, cold frames, etc.

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Third and Fourth Year Students, One Half School Time.

Agricultural Science and Projects applied to a given community:

Farm Animals: Types, breeding, management.

Farm Buildings: Sanitation and conveniences, plans, construction, upkeep.

Farm Crops for keeping the animals, rotations, balancing, cultivation, etc.

Farm Machines and implements, their use and repair.

School Years Ending 1913, 1915, 1917, *and Other Odd Years*

First and Second Year Students, One Half School Time.

Agricultural Science and Projects applied to the community:

Small Animals: Poultry, sheep, swine, bees—types, breeding, management, rations, etc.

Buildings and Equipment for small animals—plans, cost, etc.

Home Grown Crops for small animals, kinds, quantities, seeds, soils, place in farm crop, rotation, fertilizing, tillage, harvesting, storage.

Farm Shop Work and Other Construction,

Third and Fourth Year Students, One Half School Time.

Agricultural Science and Projects applied to given community.

Fruit Growing; Orcharding and small fruits not before dealt with, propagation, cultivation, packing, etc.

Market Gardening: Markets, soils, seeds, fertilizers, tillage.

Buildings and Appliances, plans, devices, implements and machines—cost, use and upkeep.

Farm Shop Work and other construction.

It is believed that the outline above suggested will lead the way to a liberal and practical education of great merit for the boy who does not expect to go to college, but intends to enter some agricultural pursuit at the end of his high school education.

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STUDENT GROUPINGS

In order to enable one agricultural instructor to direct the work of each student during a full half of that student's school time through a four years' course, groupings by years and subjects approximately like those found in the foregoing schedule are imperative. Such groupings must hold during the fall and spring terms. Other studies may be taken; but, if taken, must be so timed as not to interfere with the agricultural instruction.

AGRICULTURE FIRST

When conflict is unavoidable, or when continuous application for a number of consecutive days to his productive farming projects becomes necessary, all else must yield to the student's agricultural instruction, no matter what the cost for the time being to his other studies. Failure in, or omission of, other subjects, moreover, must not prevent attendance upon agricultural exercises in which a boy shows that he can attain a reasonable measure of success.

WINTER SCHOOL OPTIONS

The winter terms of the first two years may well be spent on regular High School studies. Every encouragement, however, should be given to the boys during the third winter term, and the fourth, to take short courses at the Massachusetts Agricultural College in the lines of agriculture they mean to follow. Such short courses must greatly enrich their training. They should be given the fullest possible credit and enable the boys to graduate at the end of the four years' school course with an agricultural diploma.

PRODUCTIVE FARMING

Home Work.—From the definition of "Agricultural Education" found in the new law, it will be evident that the determining factor in choosing both the subject matter and the methods of instruction for the agricultural departments must be productive farming. Work, therefore, scientific and economic, on farms, preferably on the home farms of the boys themselves, must be provided for throughout the periods of training.

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Agricultural Science.—The productive work required of the students will be organized into a graded series of individual farming projects. Among these, each student, with the consent of his parent, will choose an approved list from year to year. His agricultural education will then consist of learning to glean from all possible sources the scientific knowledge required for the thorough understanding and the profitable execution of his farming undertakings, when subject, as they must be, to all the natural helps and hindrances of actual local conditions.

SUMMER SUPERVISION

Accordingly, it will be part of the business of the agricultural instructor to supervise during the summer, also during the fall and spring terms, so much of the boy's productive farm work as forms part of the school course. The instructor's vacation for rest and professional improvement will be taken in winter, December 24 to about March 24, so that, from seedtime to harvest, his student supervision shall be without interruption.

Breadth and Efficiency.—There will be constant reading and study by the individual student with relation to his particular work. There will, also, be general discussions in class of all the plans which are in preparation or execution, so that each will know what all the others are undertaking—each boy's work will be subject to criticism by his classmates and to their suggestions, as well as to supervision by his instructor. This method of instruction will insure breadth of view as well as specialized efficiency.

STEPS TOWARD APPROVAL

Among the first steps toward securing State Aid for an agricultural department in a high school, the following are of primary importance:—

1. Request a Conference with the agricultural agent of the State Board of Education. The initiative may be taken by the local school authorities, or by any other interested persons.

2. Appoint an Advisory Committee of five progressive farmers, including at least one farmer's wife, and, preferably,

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one or more of the parents of boys who will enter the agricultural course.

3. Show Conclusively by Petition that the town or city
   (1) Understands what is proposed.
   (2) Desires such a department.
   (3) Will provide adequate funds for salary and equipment.
   (4) Will provide proper quarters.
   (5) Guarantees an adequate agricultural enrolment.
   (6) Pledges the hearty co-operation of parents and other interested citizens for carrying out, under economic home-farm conditions, the productive projects to be taught and supervised by the agricultural instructor.

A summary of the above would present the following outline of requirements and advantages.

VOCATIONAL AGRICULTURAL DEPARTMENT

IN THE

BEVERLY HIGH SCHOOL

REQUIREMENTS

1. *Fifteen Boys* over fourteen years old who desired this training would warrant the establishment of a vocational agricultural course in the Beverly High School.
2. *Home Work* would be given school credit, and would be required for applying the teachings of the school to productive agricultural enterprises. This home work would extend through the year in live-stock subjects, and through the summer in such subjects as gardening and fruit-growing.
3. *School Land* is not so good as home land, but might be furnished as a substitute for it in the cases of those without home land. Summer work on such school land would be required, and would be planned on such a scale as to return fair wages for a fair summer's work.

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ADVANTAGES

1. *Earning while Learning*, subject to the conditions of well-directed agricultural production, would be provided for by this department.
2. *A Special Agricultural Instructor* would both teach the strictly agricultural subjects, and assist the students throughout the summer by supervising the enterprises for profit undertaken at their homes or on the school land.
3. *High School Studies* might occupy one-half the time at school. (See Booklet No. 1.)
4. *Agriculture Alone* might be taken, and half the school time might be spent at work. The whole forenoon, or the whole afternoon, one or the other, would be spent with the agricultural instructor, leaving the other half day for either work or other studies.
5. *Each Year Complete in Itself.* While the course would be progressive, as shown by Booklet No. 1, each year would be complete in itself and might be taken with profit and without obligation to take the entire course.
6. *High School Diplomas* would be awarded those who completed the full four-year course. These students would be entitled to all the rights and privileges of graduation.

We have already taken the First Step toward approval. The recent action of the voters of Essex County whereby a county agricultural school has been authorized has temporarily stopped activity in this direction. As soon as the location of that school is determined, the advisability of further action will be canvassed. Proximity to its patrons is a prime requisite in any departure of this kind.

UPPER GRAMMAR GRADES AND HIGH SCHOOL

Our most important educational problem is that presented in the upper grammar grades and the high school.

This is not important because of the quality of the work which is done, but because of the subject matter presented, and the relatively inflexible scheme of organization.

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We have an elementary course of eight years followed by a secondary course of five years, radically different in character and organization.

Various objections have been made to the present public school system. Thinking people have felt that the results obtained are not commensurate with the time and money expended.

Many have exclaimed against the "fads and frills" and insist that there should be a return to the fundamentals. All right, if the return is made in the elementary period, the first six years, and if that return is not devoid of the essential enrichment which can accompany instruction in the three R's to the great good of the pupils.

We should never return to the fundamentals and pursue them to the exclusion of other subjects for an eight years' course. Conditions of life and the demands of society today can not be met by any such rudimentary education.

In the elementary course we should teach the fundamentals, and we should do this in the shortest time consistent with an adequate knowledge of form. Experience would indicate that a course of six or seven years is long enough for this.

The form sufficiently mastered, instruction should then concern itself most with content and be definite in its purpose. This to a great extent should be the function of the secondary school.

Children vary in their aptitudes. Just as soon as they are proficient enough with the "common working tools," they should be given a chance to use them in finding themselves. A uniform treatment beyond this stage is deadening in its monotony, and destructive of individuality. Somewhere near the age of twelve this individuality asserts itself. New tastes, and new interests become active; the boy or girl is ripe for the beginnings of that special type of education which will make for greatest success.

Because there is a marked change in pupils at about twelve years of age, and since this change continues for a period of two or three years, pupils at this stage should be in a school organized to meet their needs; needs which are neither peculiar to the elementary course nor to the high school but peculiar to the adolescent period of our youth.

If my premises are sound, my conclusion is also. A reorganization of our schools to meet conditions must be effected.

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REORGANIZED SYSTEM

The reorganized system should present elementary school work for six or seven years, transitional school work for two or three years, and advanced school work for three or four years. Each of these groups should be housed and administered in quarters equipped for their special needs. Beyond the elementary school differentiated courses should be offered, promotion should be by subjects, and departmental teaching should prevail.

"In contrast to the present system the following advantages may be claimed for their reorganization:"

1. "It would assign a single and distinct aim to the elementary school, and likewise to the high school."

2. "It would tend to eliminate non-essentials in the elementary curriculum."

3. "It would break up the uniform course, the lock-step in promotion beyond the sixth grade, in favor of individuality."

4. "It would tend to hold in school for a longer period many who now drop out. More would reach the end of the ninth grade and continue through the high school."

5. "It would render the transition from the one-teacher regime to the high school less sudden."

6. "It would shift the breaks in the school course to the natural points, whether viewed from the educational, the economic, or thel egal standpoint—namely, the ends of the sixth or seventh, and ninth grades."

7. "It would tend to greater efficiency in administration and in teaching."

8. "It would especially facilitate the development of handwork, in preparation for trade apprenticeship, trade schools, and combination schools."

9. "It would meet the social and economic needs of the day and yet maintain the democracy of our public schools."

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School systems organized along the lines suggested herein are not confined to theory but have become established in practice. I present the following regarding municipalities which have operated reorganized school systems.

Place	Population	School Population	Years in Elementary School	Years in Junior H. School	Years in Upper H. School	Experience with this Plan
Gary, Ind.	16,802	3,000	1–10		11–12	
Crawfordsville, Ind.	9,371	1,418	1–6	7–8	9–12	1910
Lead, S. Dak.	8,392	1,400	1–6		6–12	1907
Denver, Col.	213,381	34,253	1–8	9	10	
Muskegon, Mich.	24,062	3,703	1–6	7–8–9	10–12	1902
Kalamazoo, Mich.	39,437	5,704	1–7	8–9–10	11–12	1908
Cloquet, Minn.	7,031	1,351	1–6	7–8	9–12	1911
Richmond, Ind.	22,324	3,110	1–6	7–8	9–12	1910
Goshen, Ind.	8,514	1,239	1–6	7–8	9–12	1906
Grand Rapids, Mich.	112,571	14,494	1–6	7–8–9	10–12	1909
Berkeley, Cal.	40,434	5,377	1–6	7–8–9	10–12	1910
Evansville, Ind.	69,647	8,059	1–6	7–8–9	10–12	Sept., 1912
Minneapolis, Minn.	301,408	40,529	1–6	7–8–9	10–12	Suggested 1910
Los Angeles, Cal.	319,198	47,463	1–6	7–8–9	10–12	Sept., 1912

EFFICIENCY

The work offered beyond the elementary school should be of a character to promote efficiency.

My plea for efficiency in education does not imply that the education which is now offered to our pupils is a failure. Within certain well defined boundaries no better training for efficiency could be offered than that now given to our pupils.

These boundaries were at one time as wide as the active vocational field; boys and girls had ample opportunity to learn the practical things of life in the practice of the home, the shop, the farm. Modern social organization has left little home work for the boy, and a decreasing amount for the girl. The shops and even the farms have little free training to give them; the highly specialized labor is deadening in the monotony of its demands.

For a comparative few of our pupils their present educational opportunities are relatively excellent, fitting them for further study and doing it well; to a superlative degree and for the great majority of our pupils the present type of education offers very little in preparation for productive efficiency. Our work can be organized in a way to improve this condition.

I wish to present the following reasons why the introduction of some forms of prevocational, industrial work would contribute to the education needs of our children and result in greater vocational efficiency.

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Children in their normal state of mind and body like to work; evidence the great amount of labor entailed in carrying out many of their own plans, undertakings, and games. They wish to know what the work is for and to determine that it is worth while, that it will further their own conception of fun, gain, or productive activity; assured of this and the normal child within his strength is very willing, yes, anxious to work.

The tendency of the day when a child remains with his books in school, and has little opportunity to contribute to the productive activities of the home, is to decry manual labor and exalt scholarship—for a long time yet people will earn their livings by the productive activity of their hands. We need to teach certain things which will tend to give respect for and a pleasure in productive industry. We need a connective for the education which exalts the head and neglects the hand.

The history of civilization indicates that by labor the people have been held to virtue and strength of character. As nations have gained greater degrees of leisure, in greater numbers have their people become delinquent. This should not be held to be a necessary result of leisure, but it certainly is an attendent circumstance. Data from Europe and America seem to show that "juvenile delinquency" is on the increase. I submit the proposition that this may be because of the hordes of youth absolutely untrained in appreciation for labor and untrained to take their place in any kind of industry.

The trend of opinion and practice is to increase the age requirement for legal employment of juveniles. In Massachusetts they may be employed now at the age of fourteen, provided they are literate, if illiterate they may not legally enter employment until they are sixteen. Probably protective legislation will be enacted soon which will extend the age at which there may be unrestricted employment of minors to include 18 years of age. When this legislation has been enacted some definite forms of manual labor in sufficient quantity to be serviceable must be given to our children or they will grow up through their formative period ignorant of work; more unfit than now to enter the arena of life.

We should substitute for certain groups of children certain manual work in the doing of which they may taste the joy of succeeding. At their academic labor they have failed until they are perfectly willing to fail; failure is their normal experience.

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These children are not failures of a necessity, but because of the nature of the tasks imposed. They should be given work of a kind which will teach the pleasure of success. These pupils need the essentials of an education; they need thoroughly practical work rather than academic drill.

Great numbers of our children are destined to enter the industrial world soon after they may legally do so. Let us give them some work which is definite in its attempt to interest them in this world into which we are now "pitch-forking" them.

These pupils should be enabled to enter some occupations with some special training, if not in the trade itself, at least in the fundamental requirements of the trade. This is so far an age of specialists that unless this is done there will be small chance for improvement and progression after the first job is secured—once a bobbin boy always one, will be the experience of our youth.

Education must give our children some comprehension of the work of their country, the fields of labor into which they are going, some knowledge of the difficulties to be met; the chances of self-improvement and advancement in the various trades. Education, if it is worth anything to our boys and girls who are going to do the work of tomorrow, should give them some industrial intelligence before they go out and try to "break into" some employment.

If the foregoing reasons are sound and worthy of consideration, and we are going to undertake this work; if it is worth while receiving recognition from educators and in educative systems, it must be commenced in the elementary schools at least two years before the end of the compulsory school period.

It can not be undertaken with the conventional program of the elementary school. A differentiated program must be provided in the grammar schools. This is absolutely necessary in the interest of the pupils who are to join the army of laborers in the capacity of private or officer, and it is no less to be desired in the interest of the pupils who are to continue in school, through the high school, and on to college and the professional school.

How are you going to tell whom to offer these courses to? How do you tell now? It must be elective. The elective principle must be pushed back into the grammar school. Election once made must not be final; minimum essentials must be common, and always the greatest opportunity for change must be given

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if because of circumstances or ambitions a change is desirable. A maximum of opportunity must be opened earlier than at present. Vocational guidance must become a function of the school official just as soon as any of us know enough to perform the service. From the rich experiences of life, a knowledge of the environment, the capability of the individual pupil, the necessities of the home, the ambitions of the parents, and with their sympathy and help, a vocational advisor can do much to save the waste, drifting, and shifting of juvenile industrial employment.

The kind of work the boys and girls should take is that which will make them; first, better and more useful members of their family; second, better amd more useful members of the community. What that is will be determined by the environment, prospects, and opportunities of the individual. The child, the natural or legal guardians, and the school authorities must each have a share in determining this—always in the interest of the child. In order to help determine this we must offer a differentiated program of studies for pupils in the grammar grades.

DIFFERENTIATED PROGRAMS

We have had less than a year's experience with differentiated programs offered to children in grade eight at the Washington building. The following have been pursued by eighth grade pupils electing them.

A course having 10 hours a week, Boys—Manual Work.

A course having 10 hours a week, Girls—Cooking, Sewing, Household Work.

A course having 10 hours a week, Boys and Girls—Commercial Work, Typewriting.

The balance of the school work, about 15 hours, is common work on the conventional subjects.

A male teacher has charge of the boys of the manual course and teaches them the correlated academic work which properly goes with their manual work.

A woman teacher has similar charge of the girls who take the domestic science work.

In the commercial work a teacher under the direction of the room teacher specially trained in commercial subjects is in charge of that portion of the work.

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After nine months' experience with this differentiated program of studies I am ready to endorse it as offering a few of the advantages cited in the reasons given in my opening remarks.

At least 25 pupils who would not have reached the High School by way of the regular courses were allowed to enter because of the character of the work done in these differentiated courses; the majority of these are getting along well—better than some who entered unconditionally from the regular courses.

Of those who did not enter the High School from the manual course five entered the Beverly Independent Industrial School and were probably better ready to take up that work because of this preparation than they would have been under the old conditions. Six of this year's group plan to enter this school; recruits from this course will be better prepared for the work than the boys who were formerly directed into the Industrial School because they had failed in the regular school. Successful completion of our manual course is much better preparation than failure in the elementary school work.

From the domestic science group reports show that many of the girls have received such training that they are doing productive work at home, and in many cases, such help as cooking, mending, and dress-making has been given, and evidence is submitted that the course at school is responsible in a large measure for this increased usefulness. In the single achievement of learning to operate a sewing machine the home is helped. In many instances the child was not allowed to touch the machine at home until she had learned to operate it at school.

We attach no great vocational significance to the work of the commercial course. It is intended to be directing in its influence. Such skill in operating a typewriter as is acquired is an asset rather than a liability and in the pursuit of this work many pupils will have a chance to determine whether that kind of work appeals to them. Meanwhile the typewriter as a means for expression will furnish training in written English fully as valuable as any training I know of.

All but one of the pupils who took this course last year expressed a desire to continue it during the coming year. And as an evidence of interest one of the boys who took the course and left during the summer to go to work is regularly attending the commercial courses offered at the Evening Schools this fall,

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another has entered a Business School. This is evidence of an awakening interest in vocational industry and attempt to train for that work.

PREVOCATIONAL COURSES

I am convinced that this type of work, the work of these courses, should be offered one year earlier than they are now offered. I am further convinced that prevocational courses should be offered which present opportunity for agricultural types of work; that modern language courses should be offered for boys and girls destined to go to the High School and then to College.

We are almost Chinese in the tenacity with which we undertake to begin to teach foreign languages to adolescent pupils. We fail to teach them more than a reading knowledge of the language. The language age is past when we undertake the subject. Certain children should be given an opportunity to learn French or German conversationally (naturally) before the close of the elementary school.

We must recognize the fact that our program of studies as now arranged does little to prepare most of our pupils for any productive efficiency. When the home and the farm and shop did provide this the school needed to pay little heed to it. Times have changed—changed to such an extent that we must heed the change, alter our programs, or plead guilty to the indictment brought by the majority of our patrons that we have not educated them. To them an education which does not help them to a job is little better than no education.

REORGANIZATION OF SCHOOL SYSTEM

When we solve our problem of congestion at the High School the reorganization of our school system along suggested lines should be effected. If we allow the problem to be solved in disregard of this opportunity, the educational progress of our city will be set back.

The program which I stand committed to is one which will enable us to use the present high school plan for pupils of the first differentiated group (grades 7 and 8, or 8 and 9, or 7, 8, and 9) beyond the elementary school.

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This program proposes the building of a new structure for the second differentiated group: the upper High School.

(A) Table of membership of grades 7—13 shows the following totals and combination of totals.

Grade 7	340	=615	
Grade 8	275		=495
Grade 9	220		
Grade 10	215		
Grade 11	160	=775	
Grade 12	105		=555
Grade 13	75		

HIGH SCHOOL ACCOMMODATION

A committee of The Board of School Committee has been at work on the problem of high school accommodation, and I submit portions of their report. These are the recommendation of Mr. R. Clipston Sturgis, formerly chairman of the Board of School House Commissioners, for the City of Boston.

Communication of November 25, 1912

"I submit the following very brief report of my visit to the present High School premises. The old building belongs to a date when problems connected with school construction were not very clearly understood. The building is inadequately lighted throughout. Such light as there was has been injured by building the addition close to the old building. The addition should not, in my judgment, have been placed upon this limited area of land, as I have noted it has seriously injured the old building, and the old building has in turn injured the new. The building is not a very economical plan and shows an undue regard for economy in essentials. The assembly hall is modern only in its position, that is on the first floor. The building belongs more to the class of elementary schools than in the High School class and in my judgment this whole plant would be of more use to the City of Beverly as an elementary school than a High School."

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COMMUNICATION OF NOVEMBER 26, 1912

"Supplementing my previous letter I may add that in my judgment the present High School site is entirely inadequate to provide modern facilities for secondary education, and that it would be unwise to attempt further building on this site. More and more is space for outdoor exercises, and opportunity for industrial and vocational studies being demanded. No growing city can afford to disregard these demands. If land can be obtained in sufficient quantity, three or four acres at least, within reasonable distance of the center of population, it would be ideal. If land conveniently placed cannot be obtained it would be better to face the difficulties of transportation rather than not have space enough for a modern building, and space enough for growth.

The enclosed diagram is a graphic description of one type of High School, adapted for ample space, for variety of use, and for growth. The center building would be administration, assembly hall, gymnasium, and other units used in common by all. The first building erected, accommodating 800 or so, would have space which at first would be used for industrial and vocational work; here would be besides the science laboratories, domestic science, commercial work, engineering, and mechanical work. As the city grew the second building would be erected and all the special work placed there, thus relieving the first building, and increasing its capacity to that extent. The three buildings should be placed as to admit of still further buildings, but administration and assembly hall should be planned once for all, and the latter, with galleries would seat over 1000.

I should be glad at any time to give you any further information or advice on this matter, and trust this brief survey will serve your present purpose."

COMMUNICATION OF DECEMBER 16, 1912

"I should have made you a sketch of the exterior for a High School for Beverly but that such a proceeding would involve something of which I don't approve. It would mean presenting to you as if it were really a matter of importance and of serious study something which would be nothing except an imaginary sketch, which would have no real relation to your problem. The diagram that I have sent you represents certain perfectly definite

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ideas; a drawing of the exterior of the building, made without a knowledge of the site and with no consideration of the questions herein involved, whether the building were on level land, or on the top of a hill, or on a hill-side, or whether it faced east or south, would be a pure flight of the imagination. I could readily make such a drawing, but I don't believe in presenting fancies when facts are the things required. I have presented all the facts that I can without further knowledge of the actual conditions which may exist when the site is determined upon. There are, however, many aspects of the problem, both educational and constructional, which concern the modern High School, about which I should be very glad to speak briefly to the authorities at any time, if you would like to have me do this."

In addition to the facts contained in these letters it was determined that modern high school construction required an outlay of from $400 to $600 per pupil accommodated. This expense is for building exclusive of lot.

It was voted to submit the above report to the Board of School Committee at their next regular meeting and to recommend that at an early date in the next municipal year Mr. Sturgis be invited to address a joint meeting of the School Board and interested bodies.

NEW SCHOOL BUILDING

The new school building on the Lamson lot records the first positive step in solving our school-housing problem.

This building should be occupied a year from this time. Upon the opening of this building, the Hardie and Washington district lines will be brought further north. The Prospect and Washington lines may be similarly changed.

The next elementary school problems are at Rial Side, Prospect and Centerville districts. At Rial Side the solution is an addition to the present building; we have the land, and the building can be duplicated with little inconvenience. Every room in this building is occupied, and in two rooms two teachers each are engaged.

At Centerville an addition to the present building is the solution. We have the land, and the building can be duplicated, or a new and modern building, planned for additions, may take the place of the present building.

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At Prospect Hill the solution should not be by building an addition. The present district should in part be distributed to the Washington and Hardie districts, and in part be used to make a new district, further north served by a new building located north of Gloucester Crossing and toward Essex St.

Good business policy demands that these various needs of the future be grasped at this time and that steps be taken to plan their solution; otherwise a continuous condition of congestion will prevail and at intervals spasmodic attempts at relief, accompanied by costly mistakes, will ensue. All new buildings should be constructed on an adequate site and planned for additions. The committee now at work on the High School problem should be continued at work indefinitely, and in order that co-operation and mutual understanding should prevail, that committee should be augmented by members from the City Government.

TWO DEPARTURES

I wish to call your attention to two departures which remain for us to undertake at the opportune time.

The whole problem of the physical education of our children. The wise use of our school plant for community helpfulness.

It may be well to wait upon the conclusion of some of our other projects before launching into these fields.

ATHLETIC FIELD

The new municipal athletic field, together with the gymnasium provided in our new elementary school building and to be provided in the forth-coming High School structure, will furnish a broad foundation upon which to adequately build an ideal course in physical education.

We take space to thank all who assisted in securing for our use and the city's improvement the site for one of the best athletic fields in New England.

ACCOMPLISHMENTS OF THE YEAR

In the chronicle at the opening of my report you will find enumerated the positive accomplishments of the year. I herewith summarize the recommendations contained in this report.

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1. Consolidation of certain grades to constitute a Junior High School in the present High School building.

2. Construction of a New High School building adequately equipped and situated for the Upper High School.

3. A change of entrance age requirements for Grade I to six years. This change to be preceded by the establishment of a Kindergarten for younger children.

4. Physical Education.

5. Wider use of school plant in the interest of the Community.

6. Establishment of an Agricultural Course in the High School.

7. Appointment of a joint committee with the City Government to take up entire problem of future housing of our pupils.

I have not attempted to cover the subject matter coming in the province of the various special reports. I call your attention to the appended reports of the various departments, within the pages of which will be found much of special interest.

Yours respectfully,

R. O. SMALL,

Superintendent.

December 31, 1912.

REPORT OF THE PRINCIPAL OF THE HIGH SCHOOL

To the Superintendent of Schools:

DEAR SIR:—Certain things have transpired this last school year to stamp it as a notable one in the history of the Beverly High School. The work of the School has been interrupted throughout the entire year by an unusual amount of sickness, especially on the part of our teachers. This has called for substitute work for longer or shorter periods, and no matter how proficient the substitute may be, the class invariably suffers from the change. Again, we have this past year three of our

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regular teachers out on leave of absence for a year, and one on leave of absence for five months. This, in turn, has called for temporary teachers to fill the vacancies. Notwithstanding all these interruptions, the students are for the most part working in excellent spirit. Quite satisfactory results are being accomplished all along the line.

In June we graduated a class of eighty-eight pupils. Of this number, thirteen entered the State Normal School, and nine entered colleges and higher institutions of learning. The large majority of our graduates entered at once into active commercial and industrial work in its various departments. Below is appended the commencement program.

Realizing that the High School stands for all the people, and not for the favored few, and hoping to offer every possible assistance and encouragement to the young people who enter the High School, our Superintendent one year ago recommended to the School Board that a teacher be employed to give her whole time to coaching pupils who for any reason whatever might need more individual help than could possibly be given by the regular teacher. This coaching is, of course, all done in the pupils' study periods. This plan has been in operation now for a year, and the result has proven the wisdom of the move and fully justifies the extra expense. Many pupils who came to us poorly prepared, with no habits of study, and no power of concentration, have, with the aid of this coach teacher, been enabled to maintain their standing in the School; without such help their cases would have been hopeless.

Another event which has made this past year a notable one is the acquisition of an athletic field. This is a thing that our School has looked forward to, longed for, and hoped for during many years. In behalf of the pupils and teachers of the Beverly High School, I wish to extend to the City Government our hearty, sincere thanks for the magnificent field which they have provided for our school children, and placed at the disposal of the High School during the season of athletics. I have always been a believer in athletics under proper supervision. I am sure it has a place in our school curriculum. For the last few years the conditions have been such that it was not feasible to participate in athletics beyond football and baseball. With the athletic field, which in its possibilities is second to none, it will

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be possible to take up athletics in all its branches. Now, with an athletic field open to the Schools of the City, is an opportune time to seek for a physical director who shall supervise physical training throughout the City, and especially, coach the High School boys in the various branches of athletics, and I do earnestly recommend this proposition to the serious consideration of our honorable School Board.

It is with pleasure that I extend to our Superintendent the thanks of the student body and teachers of the High School for two valuable additions to our library this past year, not to mention smaller additions that have been made from time to time. In the early part of the year, "Young Folks Library" (ten volumes), edited by President Hyde of Bowdoin College, was given to us. In this library every department of human industry is treated by specialists, men of international reputation. It is in itself a liberal education, and it is of ready access to every student in the High School. Recently, "Nelson's Perpetual Loose-Leaf Encyclopedia" (twelve volumes) was given to us. This is the only up-to-date, and perpetually up-to-date, encyclopedia published, and we are exceedingly proud to number it among our books. Our library is small in number of volumes, but it is made up very largely of works of standard excellence. There is very little drift-wood.

It is needless for me at this time to enlarge upon our crowded condition and the large size of our classes. All who are interested in the fortunes of the High School understand this very well. I will simply say in closing that provision must be made for an increase in the teaching-force next year, if our young people are to be properly served.

Respectfully submitted,

B. S. HURD, *Principal.*

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COMMENCEMENT EXERCISES, CLASS OF 1912, BEVERLY HIGH SCHOOL

JUNE TWENTY-SIXTH, EIGHT P.M.

HIGH SCHOOL HALL

"OMNIA LABOR VINCIT"

—PROGRAM—

CHORUS, "Larghetto" *Beethoven*

INVOCATION

REV. EDWARD A. CHASE

SEMI-CHORUS, "Lovely Night" *Offenbach*

SALUTATORY, The Children's Crusade"

LOUISE W. RAYMOND

CHORUS, "The Two Grenadiers" *Schumann*

ORATION

J. FOSTER CHOATE

SEMI-CHORUS, "Morn-Rise" *Czibulka-Manney*
(Govotte Stephanie)

PROPHECY

HELEN D. BRADSTREET

CHORUS, "Italia Beloved" *Donizetti*

VALEDICTORY, "School Boys in Dickens"

EUNICE E. ROWELL

PRESENTATION OF DIPLOMAS

PARTING ODE

BENEDICTION

REV. JAMES D. TILLINGHAST

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LIST OF GRADUATES

Scientific Course

John Foster Choate
Leonard Russell Churchill
Harold Leslie Dodge
Irving Cutts Eaton
Mary Lund
Ralph Bartlett Pierce
Eunice Earle Rowell
Abbie May Stanley
John Wales
Margaret Walker
Donald Wessel

Normal Course

Lea Josephine Benjamin
Helen Dudley Bradstreet
Helen Crosby Bray
Mary Elizabeth Dennehy
Ruth Marguerite Glines
Lucy Marshall Larcom
Ruth Mary McClary
Edith Susan McCurdy
Margaret Teresa Murray
Grace Lambert Noble
Ruth Adaline Robinson
Annie May Russell
Sturgis Towne Stanton
Henrietta Townsend
Evalyn Ray Woodbury

Commercial Course

Jennie Hilda Berg
Marian Hathaway Brown
Julia Anna Comiskey
Cornelius John Cronin
Patrick Francis Daley
Franklin Ernest Dexter
Dora Lincoln Edwards
Harold Wood Foster
Ruth Lillian Glover
Frank Arthur Goldsmith
Irving Wilson Haley
Beatrice L. B. C. Hennessey
Mildred Florence Hurshman
Charles Sylvester Lamkin
Kathleen Helena McKiernan
Inez Merle Morgan
Elizabeth Morrison
George Lawrence Oakes
Robert William Perrigo
Charlotte Perry Roberts
Clara Mae Sanborn
Charles Henry Towne
Mary Jennie Wallace
Berniece Lydia Woodbury

General Course

Marion Elsie Albee
Rufus Winn Barrett
Annie Agnes Cahill
Gertrude Mae Choate
Andrew Elliott Creesy
Mary Agnes Crowley
Mollie Anne Dennis
Fred James Desmond
May Frances Desmond
Berniece Mae Foster
George Arthur Foster
Bryce Endicott Glover
Oceana Althea Gould
Leroy Fred Hanners
Helen Haskell
Ruth Eleanor Keyes
Goldia M. D. Leavitt

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GENERAL COURSE—*Continued*

Alfred Porter Legro
Mary Davenport Lefavour
Pearl Foster Ludden
Winifred Adele MacDonough
Ernest Phelps Mason
John Edward Matheson
Margaret Theresa McCarthy
Mary Catherine McLean
Ralph Hudson Miles
Helen Travis Patten
Merle Porteous Ray
Louise Woodbury Raymond
Elizabeth Agnes Ritchie
Edna Elizabeth Scher
Irene Annie Shattuck
Sarah Eva Stanley
Helen Augusta Stensrud
Esther Roberts Stevens
Gladys May Williams
Pearl Standley Wilson
Otla Mae Woodbury

CLASS ODE

Written by Annie May Russell

In sunny paths of blooming flowers
With gladness we have traced our way,
For happiness has filled all the hours
And sweet contentment crowned each day.

Our farewell words we grieve to say,
For friendly ties have bound us fast;
Yet we must journey on life's way
With sweet remembrance of the past.

Dark clouds may gather, days may be dreary,
Our paths seem weary ways to tread;
Yet let us labor, all things to conquer,
By "Omnia labor vincit" led.

Afar the lights of honor gleam,
Oh let us share their golden rays;
With virtue like a starry beam
To guide and help us all our days.

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REPORT OF THE PRINCIPAL OF EVENING SCHOOL

BEVERLY, MASS., January 3, 1913.

To the Superintendent of Schools:

DEAR SIR:—The Evening School opened October 14, 1912, and will probably continue until the first of February, making a term of fifteen weeks.

There is at present a registration of two hundred eighty-nine, and a teaching force of ten, made up of three men and seven women.

With one exception, the courses offered are the same as last year: English for non-English-speaking people, reading, grammar, letter writing and arithmetic, which have four sessions weekly; and penmanship, bookkeeping, stenography and mechanical drawing which meet three evenings a week.

In October, twenty young men employed by the U.S.M.Co. petitioned for instruction in algebra and geometry, and accordingly a class was formed which continued until January 1, 1913, when, owing to the removal of several from the city, it was discontinued.

The increased registration of illiterate foreigners has made the opening of a new room necessary, and as a result, it has been possible to grade this work more carefully than in former years. There are now five grades; the first, the advanced first, second, third, and fourth.

The grades from five to eight have also shown a larger registration than last year. Some of the pupils in these classes are men and women who have attended the school regularly for several years, and who, when they entered, were unable to speak English.

The class in penmanship draws its material from the common branches, bookkeeping, and stenography, nearly all of these pupils taking penmanship during some part of the evening.

The class in mechanical drawing is divided into two sections: the beginners, and an advanced class of pupils who began the course last year.

More interest has been manifested in bookkeeping this year, which is doubtless due to the fact that the average age of the pupils is greater than it has been for some time. A pupil of

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high school age and average ability should be able, in two years, to make practical use of the training which this class affords.

In the class in stenography the Benn Pitman system of shorthand, and touch typewriting are taught. A pupil who pursues this course faithfully for two years should have a thorough knowledge of the principles of shorthand, and should be able to do billing, letter-writing, etc., with accuracy and some degree of speed.

Total number registered, 289.

Men	Women
212	77

Different nationalities registered:

Italy	87
United States	86
Russia	48
Canada	18
Ireland	10
Finland	12
Scotland	5
Sweden	5
England	4
Denmark	4
Norway	3
Germany	2
Turkey	2
Portugal	2
Greece	1
	289

Whole number registered in each department:

	Men	Women	Total
English for foreigners	131	33	164
English branches	35	9	44
Bookkeeping	11	10	21
Stenography	9	25	34
Mechanical Drawing	35	0	35
Mathematics	14	0	14

Respectfully submitted,

LAURA E. HORNE.

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GRADE VI. MANUAL TRAINING EXHIBIT

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REPORT OF THE SUPERVISOR OF MUSIC

To the Superintendent of Public Schools Beverly Mass.:

DEAR SIR:—The few months in which I have had charge of the music in the schools of Beverly have been necessarily a process of readjustment, but such is the excellent school system that prevails in the city and such the loyal support of its entire working that the process has been, for me, at least, most agreeable.

In his professional capacity he who teaches music in public schools finds his most direct contact with his work through the individual teacher, and in each and every case I have found a ready response to my efforts. Not all persons are equally gifted in music, a fact that makes the teaching of that subject a difficult task for some. And yet, in some instances where this condition exists, the most satisfactory results have been forth-coming.

Taken all in all, the situation music-wise is very flourishing. Much has been accomplished in the schools. All along the line, are marked evidences of the able efforts of Mr. Wilson, and one looks forward confident of the high place that the music of Beverly's schools will hold among that of our land.

Respectfully submitted,

JAMES CALDERWOOD.

REPORT OF THE SUPERVISOR OF DRAWING

To the Superintendent of Schools:

DEAR SIR:—I submit herewith my second annual report of the work in drawing and elementary manual training.

Although the work has progressed along the same general lines as last year, it has been my aim to constantly broaden the scope and efficiency of the department by making drawing a vital thing in the life of the child and in the teaching of other subjects.

The different phases of fine and industrial art which we are studying may be grouped under the following heads: (1) rep-

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resentation, which gives pupils experience with the graphic language used in fine and constructive art; (2) construction, which gives acquaintance with the methods employed in crafts and industries and trains that judgment which comes from carrying out the processes by which raw materials are converted into the finished products; and (3) design, which trains the discrimination necessary to choose what is in good taste and to enjoy what is excellent in fine and industrial art.

More effort is being put forth to have drawing take its proper place as a necessary factor in the teaching of other school subjects. There is no better way for the teacher to present salient facts of history, geography, etc., than to have the class construct the scene with their hands. To this end, then, the study of the Indians in the 3d grades became a clear and vivid picture to the children by the construction of an Indian Village on the sand table. Wigwams, canoes, Indian cradles, etc., made by the children and supplemented by trees, their own toy people and animals, made a real live village. Ideas grasped in this manner are never forgotten, and the interest of the class is increased tenfold.

The natural outgrowth of the study of the Pilgrim settlements on the Massachusetts coast was the construction of a Pilgrim village on the sand tables, the log cabins, block-houses, stockades, etc., being made by the children and the sand easily shaped to represent different configurations of land.

A variety of projects are under construction in the 3d and 4th grades, including scenes in different countries; Holland, Japan, the Desert and Nile, Arctic Regions, Pueblo Indians, the Cave Dwellers, African Jungle, also various sections and buildings in Beverly; and the industries of our country, as mining, lumbering, etc. One has but to see the enthusiasm and delight of the children in working out these projects to realize how very worth while they are educationally.

A slight departure has been made in the manual work of the 6th grade boys by introducing the making of mechanical toys. The models are full of fun for the children and afford ample means for training in form study, construction, invention, and careful, accurate work. To hear the soul-satisfying cry, "*it works!*" does not leave one in doubt as to the fact that what the young American boy wants is something that "*goes.*"

In the 6th grade at the Prospect School the boys have con-

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GRADE III. GEOGRAPHY EXHIBIT (MANUAL TRAINING)

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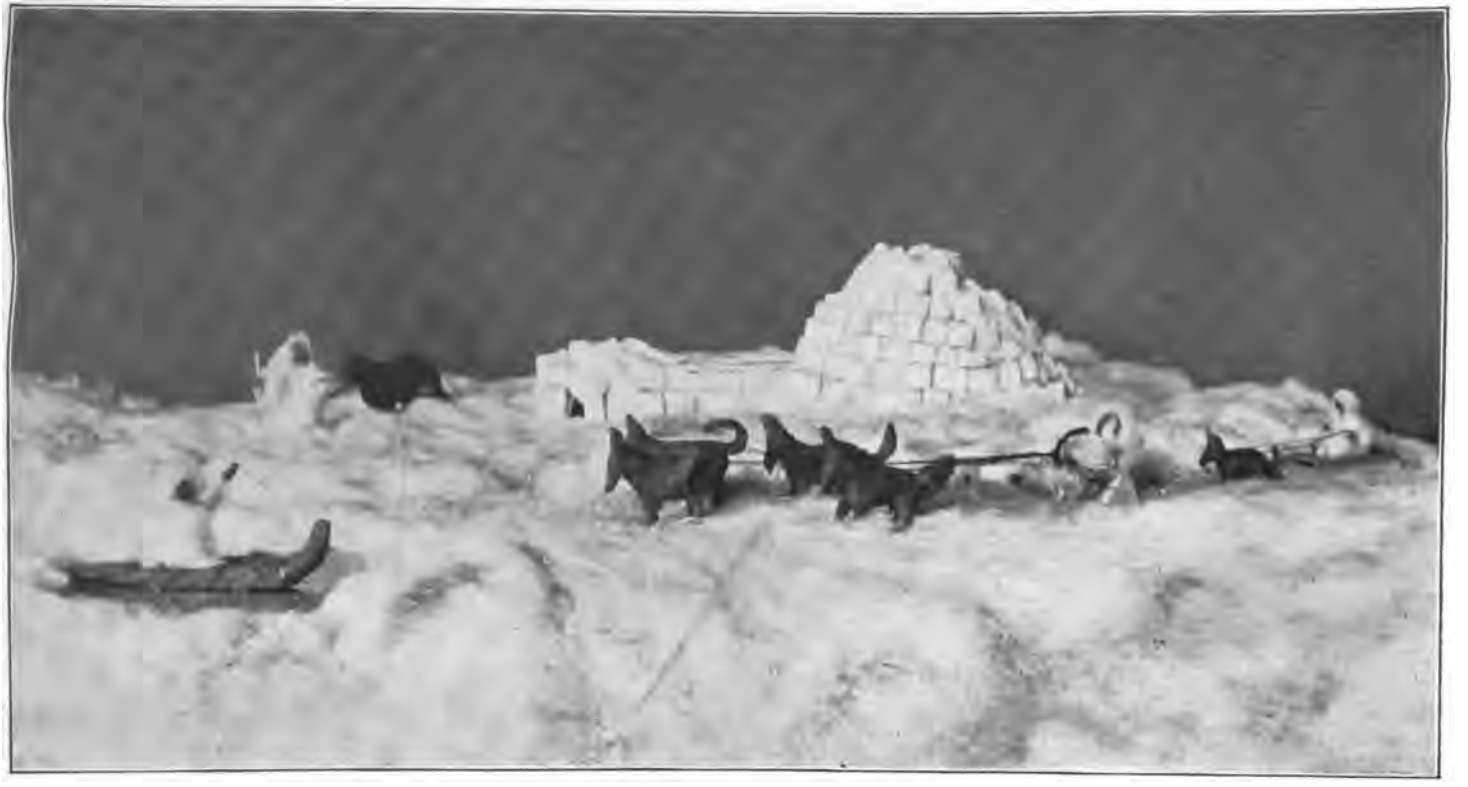

GRADE III. GEOGRAPHY EXHIBIT (MANUAL TRAINING)

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structed a complete model regiment of the army, including soldiers, officers, horses, tents for various uses, etc. The rank of each officer is designated by the stripes on his sleeve, and a more complete regiment in every detail would be hard to find.

At Centerville the 6th grade boys are furnishing a model doll house, whittling the furniture out of wood. The furniture is excellent in design and workmanship, and is a splendid problem in constructive design and interior decoration.

Again this year I would emphasize the need of more time for drawing in the first and second grades. We have at present only twenty minutes a week for drawing and the same for manual training. It is during the first year or two of school life that the child needs continual use of his primitive picture language in describing things associated with home, out-of-doors and school life, so that expression by drawing will become a habit before the age of self-consciousness and hesitation is reached.

In conclusion, I desire to express to the teachers and principals, to the Superintendent and to the School Committee my deep appreciation of the hearty co-operation and earnest support which they have given to the work.

Respectfully submitted,

HELEN SARGENT.

REPORT OF THE SUPERVISOR IN PENMANSHIP

To the Superintendent of Schools:

DEAR SIR:—I herewith submit my annual report of the work in penmanship in the Beverly public schools.

I wish to call your attention to the work which we have commenced this year in the primary grades. Believing that correct habits of work are the chief essential in these grades, we have introduced whole arm movement writing into the first two grades. When the child first enters school, he is given work at the board. This work consists of movement exercises and the retracing of letter forms and the writing of short words. These are made between lines drawn on the board four inches

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apart. Here at the board he is taught the correct position, handling of chalk and eraser, becomes familiar with certain letter forms, and learns to follow directions. Next he is given pencil and unruled manila paper on which he traces letters and words from a copy set by the teacher. He is here taught the correct position of the body, also to hold the pencil properly and the correct position of the hand. Writing large, he is encouraged to use the whole arm, rather than the fingers. The next step is to give the child ruled paper. During this time, work at the board is continued, supplementing the work done on paper at the seat. From the first, our endeavor is to teach movement and form together. The work in the second grade is a continuation of that in the first.

In the third grade, the use of the pen and ink is taught. Also, instead of using the whole arm, the pupils are taught to rest the muscle upon the desk.

In penmanship, as in other subjects, some children are able to accomplish more in a given period of time than other children. Because of this, beginning with the fifth grade, a series of lessons has been laid out by the supervisor, on which the pupils are allowed to work from one lesson to the other as rapidly as each is able, under the direction of the teacher. In this way each child is given work which he individually needs. Occasionally a class lesson is given for special instruction.

At the beginning of the year blackboard work was started in each grade. Because board writing is necessarily larger than that on paper, the form of letters can best be taught at the board. The blackboard is thus used to supplement the work on paper.

A class for methods of teaching writing and also for practice is held once a month for the new teachers and also for any teachers who are interested in the work. The attendance and interest have grown and already good results are beginning to be seen.

In conclusion, I wish to thank the principals and teachers for their co-operation, and you, sir, for your support and encouragement.

Respectfully submitted,

EFFIE E. COLBY.

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REPORT OF THE SUPERVISOR OF SEWING

To the Superintendent of Schools:

MY DEAR SIR:—I herewith submit a report of the work in sewing in the elementary schools for the school year beginning January, 1912.

This year the sewing department has been greatly aided in its effort to make its work effective, through the fitting up of a part of the Assembly Hall at the Washington School as a sewing room. The room, with its full equipment of sewing tables and chairs, cutting tables and sewing machines, cheval mirror and screens, affords the pupil the best tools for her work, and as was to be expected, has greatly aided the work in dress-making, in which much interest is shown and in which good work has been done.

When sewing was first taught in the public schools only the material results were emphasized. Today the methods have moved on to the point where an up-to-date program recognizes that sewing has a cultural background. The correlation of sewing with the study of Geography, History, English, and Arithmetic gives the pupil an added interest in her work, and offers an educational opportunity of which it has been found worth while to take advantage.

A course in which this method of correlation was employed was offered to the pupils of the eighth grade this year. Six girls availed themselves of the opportunity, and the work proved so successful that now we are conducting the course on still broader lines. Although the course cannot be called vocational, it could easily serve as a basis for vocational training.

This year there has been started a class for children who have just come to this country, and who, because they lack a knowledge of English, are obliged to enter the lower grades. Our aim is to give these girls the advantages of a course in sewing, and later by correlation with their other school work, we hope to arouse an interest which will keep them in school beyond the compulsory school age.

That sewing trains the hand and the eye has been proved again and again by the improvement in the work of pupils who at first had the greatest difficulty in mastering their simple tasks, and who later showed much skill.

The sewing that pupils do at home, either voluntarily or

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at the suggestion of the instructor is one of the most encouraging aspects of the work; for if the course is to be of any value it must be practical. Very interesting stories are told of the work done at home, in buttonholes, darning, patching, and even the cutting of a dress.

An exhibit of the work in sewing for the year September, 1911, to June, 1912, was shown at the Washington School on Public Day held in May. Grades five to eight were represented, and the work was highly praised by many who understood and expressed their appreciation of the painstaking effort on the part of the pupils which resulted in such creditable work.

At the Topsfield County Fair in September, dresses, which were finished in June and had been worn during the summer, were exhibited and were awarded three prizes.

This year it has been necessary to employ an assistant on account of the increase in the work of the department.

The instructor wishes to thank the Superintendent, the principals and teachers for their hearty co-operation throughout the year.

Course of Study

Grade Five

Canvas work, bag, towel, holder case.

Grade Six

Buttonholes, sewing on buttons, hemmed patch, overhand patch, cooking cap and apron.

Grade Seven

Stocking darn, cloth darn, practice on sewing machine, drafting skirt pattern, cotton underskirt or corset cover.

Grade Eight

Dressmaking.

Respectfully submitted,

ELIZABETH WOODBERRY.

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REPORT OF THE SUPERVISOR OF DOMESTIC SCIENCE

To the Superintendent of Schools:

MY DEAR SIR:—At the beginning of the school year in January, 1912, the laboratory kitchen was reopened for work in domestic science. During the previous weeks, the room had undergone a complete change, and was rendered attractive with its floor covering of linoleum, and its spotlessly white walls, while the installing of a soapstone sink and tubs added much to the convenience of the work.

From this time until the close of school in June, the pupils of the seventh and eighth grades came regularly once in two weeks for a period of one and one half hours, for work in domestic science. This being the first year in which this subject was taught, both grades followed practically the same course. This included the study and cooking of cereals, fruits, vegetables, milk, and eggs, together with the preparation of cream soups, biscuit, puddings, cake, ice cream, and candy, and lessons in sweeping, cleaning, bed making, etc.

A Special Course was offered to the pupils of the eighth grade whereby six and one half hours a week would be devoted to this work. Eight girls elected this course. By the end of June, these girls were able to select and purchase materials, prepare and serve simple meals, care for the various rooms in a home, and do excellent laundry work. They illustrated their ability by preparing and serving a luncheon to the Superintendent and members of the School Board.

Between fifty and sixty girls from the ninth grade of the High School came once a week in the afternoon for two hours. Their course was largely the study and preparation of food materials, and the serving of the same.

On our Public Day we had the privilege of welcoming many parents and friends to observe the work, besides being honored by a visit from the Mayor and City Council, as well as the members of the School Board.

During the year portions of our room have been set apart and equipped as a dining room, living room, and bed room, respectively, thus adding to the facilities for work. Our school

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has now as well an equipped laboratory as any school of its kind, and one of which Beverly may justly be proud.

With the opening of the fall term in September two new courses were introduced; one for the eighth grade to give work in advance of that done the previous year. The other to meet the demand for a second year's work in the High School. As the courses are now planned a pupil may receive four years' training in domestic science, and at the end of that time have a good working knowledge of food products and their relative food value, of how to select and purchase such materials, and plan a well-balanced diet, besides the actual cooking of this material. She will also understand the details and care of a well-ordered home, and should occasion arise, she may turn her knowledge to lucrative account.

Early in this term an assistant was engaged to aid in making the work of this department more efficient, and to correlate the subjects of arithmetic, language, geography, spelling, and drawing with the work in domestic science.

The Special Course is open to girls in the eighth grade. Credit for this course is of the same relative value as that of other subjects.

The domestic science department is open at any time, and a cordial invitation is extended to the public to visit the classes, and observe the work.

The work of this year has been one of progress, and the improved equipment will make possible larger results.

The supervisor wishes to express her appreciation to the Superintendent, whose efforts have made this work possible, and whose suggestions and co-operation have done much to make the work one of pleasure as well as profit. Also to the principals, teachers, and others who have so heartily co-operated with her throughout the year.

Respectfully submitted,

ANA C. SARGENT.

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REPORT OF THE SUPERVISOR OF MANUAL TRAINING

To the Superintendent of Schools:

DEAR SIR:—As supervisor of manual training my work has included only that of the seventh and eighth grades for the boys in the shops, and the mechanical drawing, bench wood work and wood turning for high school pupils, both boys and girls.

During the year I have visited the High School, the Vocational School, and the Normal College, at Albany, New York; the Stuyvesant High School, Vocational School for Boys, and the Baron di Hirsch School, in New York City, and the Brooklyn High School; also the High Schools at Providence, Haverhill and Portsmouth, to see where our work might be improved, and to note especially the work in the vocational schools for boys who would have to go to work before entering the high school.

In our Beverly schools we have all of the conditions of boy life which I saw in the larger places, and the problem to meet these conditions so that each individual boy may find the shortest road to an understanding of how to take up the work of life, without having to have an unreasonable number of instructors, is the problem which we have had ever in mind and have endeavored conscientiously to solve throughout the year.

It is impossible to carry on individual problems, other than the most elementary where a boy could do the job anyway, in large classes of beginners, for each boy gets only his own proportion of, say, eight and one-half minutes per lesson, in a class of twenty, to five and one-half minutes, in a class of twenty-nine.

The seventh grade, which is the beginning of bench work, has been kept on whole class problems where what is said to one applies to all of the pupils and what one does is a lesson to all. Of course some do not like the problem, the job, the model, or whatever the task may be called, and in most such cases these are the boys who need to be taught then and there that in business the help do not run things to suit themselves, and that the man or boy who cheerfully and wisely does his best on whatever he is given to do will make a success in any trade or profession.

In every class of the seventh grade most of the boys enter into the work with an interest, a few can be won over, and a few drop out, so that the greatest possible amount of tool use and instruction, which is the vital point, can be given and the boys are contented.

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The work this year began with a mechanical sketch of a weather-vane and talks on its principles of balance, design, and construction, omitting the more complicated dimensioning, until in the process of construction the boys saw their necessity, when they were put upon the drawing.

The stock is cut from the rough board, dressed up, and the shape of the vane laid out upon it from the drawing, and then worked out according to shop methods, and painted.

Each boy provides a 16-inch metal rod, and must make a wooden jig and drill a hole through this round rod for the pin which holds the washer on which the vane is to revolve.

A wooden ball, which has been turned on the lathes by the special eighth grade boys out of models which had been the exercises of high school classes, has to be bored for a tight fit for the top of the vane rod and gilded.

A truck for the end of the pole is made in the same way, thus using the waste stock of the lathe classes.

This typifies my plan for the seventh grade, namely to be practical, mechanical, and economical.

The class can now do some individual work, though on the principle of consuming time I do not encourage it, except by competent boys, as it is a fact that when the class does something instructive, willingly and interestedly, the object of manual training is accomplished; that is, to teach habits of accuracy and self-reliance and an appreciation of work that is good.

The year's shop time is about fifty-five hours for seventh and eighth grades, and how we employ this and what results we do or can obtain should be compared with what any mechanic would expect of a boy after the same time at the beginning of his shop life.

From January to June last year Miss Ferrin with the seventh grade made a very good showing in variety and quality of work and very little of it was left uncalled for.

Eighth Grade

The regular eighth grade classes from January to June made the book-rack as in previous years, starting with the rough board.

This seems to give more tool practice, and at the same time give an object of real beauty and value, than anything else that we have seen.

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When this has been made conscientiously, the boy is able to make any other project he has time for.

When all of the class make the same object, they learn from each other as well as from what the teacher says to others.

One of these book-racks received a prize at the Topsfield Fair.

In September we decided to start with the new class making the book-rack first, so as to have more time left for other objects, rather than to use the beginning of the term for rough shop jobs, which when tried in 1911 gave much time for idleness while waiting for instructions, and which resulted in crude and careless work.

The experiment with the regular eighth grades in 1911 of sending boys to ease doors, paint posts, or set glass in the building resulted in chipped doors and the teacher having to smooth up the job after school.

If we went with the boys the rest of the class worked at random, and if he went alone much unnecessary time was used, and some disorder was reported.

Superintendents of shops will tell of the difficulty of getting satisfactory work from even grown men unless they have minute instructions, and a boy must have constant help or watching.

I have on hand several pieces of furniture, left by seventh, eighth, and higher grades, uncompleted because the boys could not do the work alone.

Therefore, we do as difficult work as we possibly can, and the classes naturally divide into boys who cheerfully do the job and will be self-reliant and the "I-don't-want'er" set who may in the shops be capable of tending some automatic machine or other unskilled labor.

If all of these latter class could be taken in one class and given simple work in variety and gradually led on to see their real ability, better results could be obtained than by their having to do what the regular class does, even with the regular fifty-eight hours a year, and so not decrease their time on regular studies.

Special Eighth Grade

In January, 1912, the Manual Course was started, which consisted of eleven boys of the eighth grades at the Washington School only, who, with their parents' consent elected this course.

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This course offers ten hours of shop work a week, which was divided as follows, to give a general mechanical experience. Two forenoons of 2¾ hours each were spent in the shop on jobs for the city about the shop and building, such as drawers for the tool room, pigeon holes in a cabinet, bolting benches to the floor, book-case, wood-box, cabinets for papers for English teachers at the High School, doll-houses for the lower grades, bench horses, window boxes and partitioning off a varnishing room.

One afternoon of each week was given to mechanical drawing, which included the discussing and drawing of the shop jobs, tracing their drawings in ink, and making a blueprint from the tracing. The boys were given all three of these sheets to illustrate the stages of the shop drawing.

The other afternoon was spent in the shop making articles of furniture for home use, from the boys' own designs.

It was evident that some elected this course as an easy way out of other studies.

Of the eleven who entered, three entered the Industrial School, two at least are in high schools, and the rest are at work, except two who left school during the year.

Since September Mr. Gay has had charge of the class, and in addition to their shop work, conducts the regular class work as far as it applies to the shop.

The value of this course to just such boys as elect it is great, inasmuch as it gives them some real work with an instructor to guide them, however crude it may be.

It is hard work, which ought to open the eyes to the future before it is too late to see the value of school.

It gives machine experience, drawing, planing, applied arithmetic and letter-writing, and a chance to make home furniture, etc.

To such boys it cannot but broaden their outlook whether they go to work, the High, or the Industrial School.

Some changes can be made, and will be, which would make the course more of a stepping-stone to the Industrial School, which seems to be where a fair number will go next year.

High School Woodwork

The woodwork of the High School has been at the Washington School shops in afternoons during the entire year.

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There has been a freely expressed dislike by pupils to having to go to that building, and to coming back in the afternoon, and some did not elect the subject on that account.

A great discouragement to the teachers, and a detriment to the work, was the repeated absence of pupils who were called to the High School for other work on shop days.

Why a pupil should not be called to the shop from a geometry or science class, or even on a study period on as good ground as the reverse, would be a fair question, in view of the comparative cost of the work.

The work was entirely individual, except the making of a drawing-board by each pupil for the school.

This is done in many schools and is rated as practical, but the board can be bought for about $0.65, and the pupils were, in some cases, from October to January in making one by hand, and it was not perfect then.

Therefore, in beginning with the new class in September I first had each pupil make some one joint in wood which I needed for models for ninth grade drawing and for illustrations for my shops.

This was strictly old fashioned manual training, except that I had a use for the joints, but there were some who voluntarily made the joint again just to get it right, and some made very bad work, which in a screen would have ruined a whole side.

When we at last started on the pieces of furniture, the class had found themselves and took up the work well enough to repay the practice time.

A book-case seems to be the favorite object, and a writing desk, shirt-waist box, umbrella rack, and wall racks are also being made.

It seems from observation that those who really want shop work are willing to go where it is, except in some cases.

If the shop was at the High School and the work within school hours, it is certain that more would elect the work.

Though the numbers have been small, the work is a success, as it has filled the demand and the results have been good work, and the teachers have taught full time.

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Mechanical Drawing

The mechanical drawing of the High School was conducted in the shops at the Washington School until the close of school in June, and the attendance was excellent.

In September the work was moved to the basement room in the Briscoe building, and the attendance has not been any better nor have any larger numbers elected the subject.

Formerly one period of sixty minutes counted as a credit; but we have insisted on the rule in force in most cities that unprepared studies are given one credit for two 45-minute periods, and I have stated that sixty hours is the year's work, regardless of holidays and absences.

Mechanical drawing is slighted and belittled in many schools, but every boy and girl should at least be able to make simple household drawings. It is really mechanical shorthand, the use of which can only be realized when one sees the attempts of a merchant, house-owner, or even skilled mechanics to give someone an idea of some object they wish made, or to describe.

The plan of the work is for the ninth grade to make shop sketches of simple objects, and then make a finished pencil drawing from the sketch, also simple screw and belt drawings.

Four or five drawings are made in this way, then machine details are copied from blueprints. This is learning to "read blueprints," as it is the regular shop man's operation, only we build it on paper from the print.

The boys will make drawings of whatever they build in the shop and make a simple house plan.

The girls do more house plan work and furniture drawing and developments of shade patterns.

Thus we aim to make the ninth grade drawing a complete elementary course suited to the needs of the average person.

The tenth grade is what might be criticised as academic. It covers the most useful geometrical problems and projection pure and simple, made as interesting as possible and its uses pointed out.

Many schools are trying to give enough "catchy" drawings somewhere in their construction to contain all the elements of construction. They look large to an observer, but after drawing

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twenty years it seems hard to know what to give or leave out in the short time we have.

There is the element of the slang shop expression to "get by" in some school work.

A draftsman must know about so much, and if a boy cannot apply principles when the time comes in a new condition he could not meet it any way. If he wants really to draw he will push on; if he wants simply to make easy credits he will be as well off to take the course as laid out.

Detail drawing is also given in the tenth grade so the boys would be able to do anything that would be trusted to them in an office. They would trace anyway and so get all the copying they wanted.

Above the tenth grade detail drawing, gear and cam construction and advanced projection are taught.

It is a fact that projection from its fascinating puzzle-like study interests the boys as much as copying.

Those who are able may go as far as to design an original locomotive, as one boy is now doing, in its essential parts.

We are now using two rooms in the Briscoe building, one for the general class work and the other as a real drafting room, with working prints hung up all around where they may be used at any time especially on engine work.

These rooms are open to any pupil of any class, any afternoon except Friday, for extra work, and it is with regret that we must be confined to the one room in the basement next year.

It will be impossible to carry on such advanced work, which makes necessary the use of much room and the leaving about of books and valuable data and drawings.

The main room requires artificial light and has a soft brick floor which soils clothes and raises dust. This could be improved by cement.

The exhibit which we sent to the Topsfield Fair was very successful. A silver cup was awarded for the exhibit as a whole, and two first prizes, being for book-cases made by the special manual course boys.

Exhibits were held in the shops on the day that the building was open for inspection, and boys were at work during the day.

I have not allowed boys to sharpen tools, I explain and illustrate the operation; and they are not allowed to go among

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our sixty or more planes ruining them for fine work. When they can do good work with good tools they will learn to sharpen them voluntarily. The time is too short even now. If they never own tools they suffer no loss, and if they do become good workmen, they will learn to sharpen tools.

Lathe Work

In January, 1912, six lathes were installed at the Washington School and were at first intended for High School use; but it was found that the special eighth grade boys could use them and get valuable experience in machine work as well as turning.

The High School boys did not use them as much as was expected.

In all other high schools lathe work comes in the second shop year, and we had only a few eligible to take the work, though all we could accommodate.

We could have let in a lot to make playthings of the lathes; but wood turning is a course in itself, and it is best to keep it on a school footing.

Mr. Gay followed elementary exercises for a short time and then made mallets, baseball bats, and other objects, after the methods in use by pattern makers.

The lathes were not in use all of the time, but we had no more school time to give to it, even had there been more classes of six, which was our limit in the room.

The lathe work should be combined with other woodwork in the same room to give the teacher a full class of from 12 to 18 on advanced work and turning.

Mr. Gay held many special classes after school hours on the lathes.

The lathes are a valuable addition, if for no other reason than to give the special eighth boys a chance at work which they cannot hope for later in the High School, and to teach them to work around and care for machines.

Respectfully,

CHARLES L. PEIRCE,

Supervisor of Manual Training and Mechanical Drawing.

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REPORT OF THE ASSISTANT IN THE MANUAL TRAINING DEPARTMENT

To the Superintendent of Schools:

DEAR SIR:—In accordance with your request you will find enclosed, herewith, a report for the work of my Special eighth grade, up to December 20, 1912.

Last year my classes were confined to shop work and mechanical drawing entirely, but this year I have them in arithmetic, spelling, and composition, correlating with my shop work. Our first job was to figure the cost of twelve vises for the lathe room. They have written letters ordering stock and fixtures, and letters of inquiry as to prices of material.

In this work it is my intention to make a rule and pencil sketch for convenience in figuring, and in making our mechanical drawings. We will then make a tracing from which a blueprint will be made to use in the shop. This scheme has not proven altogether a success, as the time spent in making the drawing greatly exceeds the job in the shop; but I think with a little time spent on mechanical drawing, and more use of the rule and pencil sketch, we can make things come along together.

One job, in particular, which we have succeeded in working out from the rule and pencil sketch (the foot-stools for the typewriting room) has proven rather interesting. Having kept his time carefully on this job, each boy figured out just how much his stool was worth, at its present stage of development. We figured this two ways: one way we worked it out, was to find out just how much we were saving by the use of old desk tops. The other way was to find out just what it would cost to make them out of new lumber. We reckoned each boy's time at $0.10 per hour. We obtained some very astonishing results. The average cost per boy we found to be $1.32. One boy was able to make a stool for $0.40. Another boy made two for $1.20. Some of them are valued at $1.92. There has been a call for these stools, and they will be used to practical advantage in the typewriting room.

This has been a remarkable opportunity for the boys to see the value of time spent in a businesslike manner in the shop.

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They seem much interested in their work, and thus far I haven't seen a boy in the class with a lagging interest.

Each Friday afternoon I am able to use from two to six boys at turning, and generally from four to six one or two nights after school. In this work we have kept in mind the importance of making each thing turned prove of practical value. We have turned parts of the weather-vanes being made by the seventh grade boys.

After school the boys have turned things for use at home. One boy has turned two or three pins, made similar to a crochet needle, for sewing carpets. He says those he can make at school last much longer than any he can buy. Another boy very proudly asserts that the stocking darner he made is in use, in Seattle, Washington, by an older sister. One boy succeeded in getting a chair leg nearly finished.

I think this work as a whole is teaching them to observe things outside the school. In reasoning out some of the jobs I have left it to them to find out as much as they can by observation. In this manner I can get some very good ideas as to the best way to make a ladder, chair, table, or anything they are about to work on, from the commercial world.

In connection with my regular work I have taken up forestry on a small scale. I intend that each boy shall know where the different kinds of lumber come from, how it grows, and how it is milled.

This subject I intend also to put to practical advantage by having the boys trim up the trees in the yard. In my shop work I have had four boys from the lower grades. They show a great willingness to work, and although they are unable to speak English, have succeeded in making a footstool, mainly by observation, much quicker than some of the eighth grade boys. They are very quick to learn the terms applied to tools and operations, and I think that, perhaps, they will be able to learn English more practically in the shop than in the classroom.

I am sure this work is going on very nicely, and look for larger results when one teacher is handling the whole subject.

Respectfully submitted,

HARRY GAY,
Assistant in Manual Training Department.

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REPORT OF CUSTODIAN OF SCHOOL BUILDINGS

ROBERT O. SMALL,

Superintendent of Schools.

DEAR SIR:—I hereby tender my second annual report as Custodian of school buildings. During the past year I have followed along the same lines as last year. Visiting the schools and inspecting most of them at least once in two weeks, instructing the janitors in regard to the committee's rules and regulations, and seeing that they have been carried out, as the appearance of the buildings will show.

The policy of having a systematic inspection of the buildings, has, in my opinion, shown good results in the janitor's services and in the uniform attention to the upkeep of the property of the city.

We have oiled the floors of the buildings during the past year, and I am satisfied that this is the most sanitary way to treat floors. It keeps the dust from rising and filling the air with deadly germs for the pupils to breathe; it also preserves the floors.

While we have had a few complaints from some of the teachers, about soiled skirts, I feel that the pupils' health is of more importance. I therefore recommend that the use of oil on the floors be continued.

During the past year the following repairs and improvements have been made.

SOUTH SCHOOL

Interior of building varnished; new curtains in some of the rooms; new adjustable seats and desks in six rooms. Most of the old desks have been broken up, and used in the manual training department at the Washington School.

PROSPECT SCHOOL

Interior of the building varnished; repairs on the roof; some of the ceilings tinted.

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Cove School

New sectional boiler (as the old one was condemned by the inspectors). New adjustable seats and desks in all of the rooms; outside of building painted; new cesspool; iron rail fence around the grounds; this will keep the pupils from running direct to the street when they get out of school, thus avoiding in a measure the danger from automobiles and electric cars. It also improves the general appearance of the grounds. It is the intention of parties interested to have a hedge placed inside of this fence.

Hardie School

Retarring of wall on the north-east side of the building; covings painted; gutters repaired; new toilet room for teachers; boilers repaired.

High School

Painting skylights and stacks on roof; tinted walls of six class rooms; built addition to supply room in basement of new building; cemented floor in basement of old building for domestic science room; retopped chimney on old building; gravel on walks around buildings.

Bass River

Retopped chimneys and repaired ceilings.

Washington School

Screens on part of the basement windows; fence to protect shrubbery.

Rial Side

Screens on basement windows; new curtains in six rooms; more radiation in Principal's office; gong on outside of building; gravel on walks.

Beverly Farms

Repaired covering of boiler, also one new tube in boiler; and set out shrubs; buttresses repainted.

Centerville School

Electric lights installed in class rooms; two closets for books.

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McKay School

Repaired roof; buttresses on north and south entrances repainted; more radiation in the Principal's office. We have used all of the soft coal cinders for grading at the several buildings, instead of paying to have it hauled to the dump as formerly.

During the year I have made 280 calls, as shown by the following table.

Hardie	26	Washington	32
McKay	35	Pleasant View	10
Farms	21	South	32
Centerville	14	Cove	30
Prospect	30	Bass River	25
Rial Side	25	High	

No calls are recorded at the High School as my headquarters are here, and I oversee the work and conditions here every day, also do part of the janitor's work.

Perhaps it would be well at this time to state the nature of the calls I make, for the information of the Committee. As one illustration: there is trouble at the Washington School; the bells are not ringing; some of the tanks in the toilets are out of order; the clocks have stopped; the telephones are not working as they ought; the building is not warm; something is the matter with the boiler.

I investigate and in most cases do the necessary repairs; if unable to do so, we get the proper mechanic, and see that the work is inspected when finished; before the bills are paid, they receive my endorsement. These same calls are liable to come from any of the large buildings, at any time.

I have found the janitors always willing to co-operate with me, and follow any suggestions I might make for the good of the service.

Thanking you and the Committee, I remain

Very respectfully,

EDMUND G. DODD,

Custodian of School Buildings.

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REPORT OF THE TRUANT OFFICER

To the Superintendent of the Public Schools, of the City of Beverly for 1912:

DEAR MR. SMALL:—As the truant officer of Beverly, it is a source of great pleasure to find that the manufacturers in our shops and factories so well comply with the law in the employment of minors, and that they show their willingness to adopt such suggestions as were made in my visits to the shops so many years. I have always been treated with great respect; and the labor certificates are nearly all filed for inspection by the State Inspector, especially at the United Shoe Machinery Co.

I also feel proud in receiving letters from many who express thanks for putting them in school and in court in years gone by, as they now see that it was for their good. Particular effort is needed to help those children whose parents are both employed, as they need constant watching and encouragement. The work of a truant officer is of the greatest importance in these cases. I hope that more parents will visit the schools and see for themselves the time and the work which is put in for their children's good. Then both parent and teacher will be working for one great end, the heart culture of the child.

Having served the town and city nearly forty years as their Truant Officer, the Superintendent and other friends of the School Board suggested to me that the work had increased so much that I ought to have an assistant. I was very loath to do the same, as I had fears that there might be a clashing together of that harmony which would exist between the assistant and myself. Finally there was a Civil Service examination held; three of the men passed. The choice was William T. Pepper, who began with me as assistant in February last. He works with me with a good will, giving account of his work every night, and tries to help in every good work, and is just the right man in the right place.

The Evening School has been a most remarkable success, and an interest has been manifested on the part of those required to attend. Our system of reports with reference to the attendance and absence insures regular attendance and makes it possible to acco nplish much for the pupil.

It is indeed interesting to note the earnestness with which these young men and women strive to master the various subjects

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taught. The City of Beverly is not spending its money more wisely in any direction than in this one; they making it possible for its illiterate population to become intelligent English-speaking people.

I began my work in the evening of October 21, 1907, and by attending to the matter, I have been enabled to keep up the attendance quite well by giving a copy of the law to every employer; as this puts the responsibility on the employer, and as Miss Horne gives me the list of the non-attendants two times a week, by going to their homes or where they are at work. The pupils are always glad to see me at their homes, and speak well of the school.

On the last page will be seen the labor done in the statistical report. I must say that this has been a good year as concerns money, gifts, both in toys and clothing, coal; $82 for Thanksgiving and Christmas dinners; 102 pairs of shoes, groceries, bedding, $273; eye-glasses, $11.25; and many other gifts to make all happy.

I wish to thank one and all for the aid given, the kind words which have been said, and to the poor, aged ones who could not get out a short season of prayer with them. "As ye have done it unto one of the least of these, my brethren, ye have done it unto Me," thus enabling many a poor child to attend school, who otherwise would have been absent.

Statistical Report of the Truant Officer's Work for the Year Ending December 31, 1912

Number of calls to the school houses	1,441
Number of absences investigated	1,718
Number of cases of tardiness	207
Number of cases of truants	199
Number of calls to the evening schools	160
Number of calls to the Industrial School	112
Number of parents put in court for keeping children out of school	28
Number of children in court	28
Number of parents fined	6
Number of parents put under bonds	7
Number of boys probated	5

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Number of girls probated.....2
Number of children sent to State Board.....7
Number of girls sent to the school for girls.....1
Number of mothers sent to the prison for women.....1
Number of boys sent to the feeble-minded school.....1
Number of boys sent to the Roxbury Catholic truant school....1
Number of infants sent to the State Hospital (4 months old)...1
Number of infants sent to the Alms House.....1
Number of calls to the shops.....210
Number of minors employed (14–16).....172
Number of minors employed (16–21).....309
Number of minors discharged until they get a certificate.....10
Number of minors employed under age.....13
Number of firms that employ minors.....63
Number of firms that do not employ minors.....15
Number of calls to the bowling alleys, etc.....162

Yours respectfully,

NEHEMIAH S. HERON, *Truant Officer.*

WM. T. PEPPER, *Assistant Truant Officer.*

REPORT OF THE PUPILS' SAVINGS BANK

To the Superintendent of Schools:

DEAR SIR:—The report of the Pupils' Savings Bank in the Beverly Public Schools is herewith submitted.

In January, 1912, the Board of School Committee assumed control of the Pupils' Savings, which, up to this time, had been conducted by the Lothrop Club. The amount transferred at this time was $354.54.

Regular collections have been made at the schools every week, except during the summer, when a station was opened in the High School building on Wednesdays for any one wishing to deposit through vacation.

The following Financial and General Statistics present the vital facts connected with the administration of the Bank during the year:

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Financial Statistics at close of Week Ending December 28, 1912

	Deposited	Withdrawn for Deposit in Beverly Savings Bank	Withdrawn	Balance
Bass River.....	$303 58	$164 19	$27 24	$112 15
Centerville.....	119 81	65 70	2 24	51 87
Cove.....	108 38	25 00	21 44	61 94
Farms.....	322 10	221 00	27 79	73 31
Hardie.....	474 86	212 11	110 86	151 89
High.....	42 70	25 00	8 30	9 40
Industrial.....	5 15	3 00		2 15
McKay.....	184 69	57 07	37 44	90 18
Pleasant View....	143 76	36 63	23 12	84 01
Prospect.....	158 50	29 00	63 39	66 11
Rial Side.....	484 16	128 00	142 03	214 13
South.....	526 79	220 72	121 83	184 24
Washington.....	348 16	101 58	89 69	156 89
Total.....	$3,222 64	$1,289 00	$675 37	$1,258 27

Interest added October 23.....	$15 00
Receipts from cards destroyed.....	1 11
Total balance in Bank to the credit of the Trustee's Account .	$1,274 38

In addition to the above, $8.82 was added to the Pupil's individual Beverly Savings Bank Books, by the bank itself.

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General Statistics

	No. of Accts. to Date	No. of Accts. Closed	No. of Active Accts.	No. of Small Withdrawals	No. of B. Books Issued to Date	No. of B. Books Closed	No. of Active B. Books to Date	Total No. of Deposits
Bass River	138	8	130	20	29		29	1311
Centerville	53	2	51	3	14		14	540
Cove	87	3	84	20	6		6	715
Farms	101	6	95	19	27	1	26	946
Hardie	231	18	213	85	37	1	36	2011
High	15	0	15	6	4		4	77
Industrial	5	0	5	0	1		1	9
McKay	123	7	116	31	9		9	973
Pleasant View	115	1	114	33	7		7	1043
Prospect	104	21	83	41	7	2	5	662
Rial Side	324	18	306	127	33		33	3308
South	314	27	287	109	31	4	27	2476
Washington	259	14	245	73	26		26	1858
Total	1869	125	1744	567	231	8	223	15929

Respectfully submitted,

PEARLE G. PEDRICK.

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STATISTICS IN DETAIL

1911—1912

PREPARED FOR

MARTHA W. PEDRICK, Statistician

BY

HELEN D. BRADSTREET

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SCHOOL COMMITTEE

Member at Large

SMITH, MARY B., Miss 1913
Residence, 39 Bartlett Street.
Telephone 584W.

Members from Wards

BAKER, CHARLES A. Ward One, 1913
Residence, 13 Thorndike Street. Telephone 493W.
Business address, 151 Cabot Street. Telephone 146W.

MOULTON, LEONARD B. Ward Five, 1913
Residence, 7 Devon Avenue. Telephone 52M.

DAVENPORT, DR. MELVIN E. Ward Two, 1914
Residence, 61 Lovett Street. Telephone 354M.
Business address, 156 Cabot Street. Telephone 471.

ALDERMAN, GEORGE D. Ward Three, 1914
Residence, 35 Federal Street.

DOW, JAMES B. Ward Six, 1915
Residence, 705 Hale Street, Beverly Farms.
Business address, 681 Hale Street, Beverly Farms.
Telephone 183, B.F.

HUNTOON, BENJAMIN A. Ward Four, 1915
Residence, 81 Hale Street.
Business address, 83 Hale Street. Telephone 462W.

MEETINGS.—Regular meetings of the School Committee are held on the last Tuesday evening of each month at 7.30. Special meetings at the request of the Chairman or three members of the Committee.

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ORGANIZATION, 1912

CHARLES A. BAKER, *Chairman* MELVIN E. DAVENPORT, *Secretary*

The Chairman of the School Committee is ex-officio a member of each Sub-Committee.

STANDING COMMITTEES

EXECUTIVE: Mr. Dow, Dr. Davenport, Miss Smith, Mr. Alderman.

FINANCE: Mr. Huntoon, Mr. Dow, Dr. Davenport, Mr. Moulton.

INSTRUCTION: Miss Smith, Dr. Davenport, Mr. Moulton, Mr. Alderman.

MAINTENANCE: Mr. Huntoon, Mr. Dow, Mr. Moulton, Miss Smith.

SUB-COMMITTEE ASSIGNMENTS OF EACH MEMBER

Mr. Baker—Finance, Instruction, Executive, Maintenance, Industrial School.

Dr. Davenport—Finance, Instruction, Executive.

Mr. Dow—Finance, *Executive, Maintenance, Industrial School.

Mr. Huntoon—*Finance, Maintenance, Industrial School.

Mr. Moulton—Instruction, *Maintenance, Industrial School.

Mr. Alderman—Executive, Instruction, Industrial School.

Miss Smith—*Instruction, Executive, Maintenance.

* Chairman.

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TEACHERS OF THE BEVERLY SCHOOLS, DECEMBER 31, 1912

* indicates leave of absence.

G. indicates Graduate.

Schools and Teachers	Position	Where Educated	Elected
BASS RIVER			
Charles S. Brown,	Principal	Phillips Academy,	1879
Mabel A. Wallis,	Grades 7–8	Salem Normal School G.	1906
M. Estelle Ramsdell,	Grades 6–7	N.E. Conservatory of Music G., Gorham Normal School. Kent's Hill Sem. G.	1909
Susan T. Linnell,	Grades 5–6	Gorham Normal School G.	1900
Ethel S. Merrow,	Grades 3–4	Salem Normal School G. and P.G.	1909
Nellie G. Stubbert,	Grades 1–2	Wheelock Kindergarten G.	1905
McKAY			
Cora M. Rogers,	Grades 7–8	Westbrook Seminary,	1907
Ruth M. Moodie,	Grade 6	Salem Normal School G.	1911
Myra Hall,	Grade 5	Bridgewater Normal G.	1912
Mabel E. Baker,	Grade 4	Framingham Normal G.	1911
Marion D. Lord,	Grade 3	Salem Normal School G.	1912
Millicent G. Perkins,	Grade 2	Salem Normal School G.	1907
Mabel F. Cressy,	Grade 1	Beverly Tr. G., Hyannis Summer,	1898
CENTERVILLE			
Bertha Drugan,	Grades 5–8	Framingham Normal School G.	1909
Alice P. Williams,	Grades 1–4	Salem Normal School G.	1909
COVE			
Elizabeth B. Fuller,	Principal	Farmington Normal School G.	1900
Phoebe Lewis,	Grades 7–8	Wellesley College 2 yrs.	1912
Stella B. Stockwell,	Grades 5–6	Bridgewater Normal G.	1912
Marguerite M. Hazen,	Grades 3–4	Salem Normal School G.	1910
Laura R. McCurdy,	Grades 1–2	Salem Normal School G.	1909
FARMS			
Wilhelmina Patterson,	Principal	N.H. State Normal G.	1909
Elizabeth Harding,	Grades 7–8	Gorham Normal School G.	1909
Anna B. Brooks,	Grades 6–7	Salem Normal School G.	1910
Bertha A. Connor,	Grade 5	Worcester Normal G.	1911
Mary E. Riley,	Grade 4	Salem Normal School G.	1910
Sara E. Piper,	Grade 3	Castleton Normal G.	1909
Adelaide L. Day,	Grade 2	Beverly Training G.	1902
Mary F. Lowd,	Grade 1	Portsmouth, N.H. Tr. G.	1910
HARDIE			
Clara A. Smith,	Principal	Vineyard Haven,	1893
Euphemia K. Potts,	Grade 7	Bridgewater Normal G.	1911
Alice G. Lapham,	Grade 7	Quincy Training G.	1904
Bertha M. Sperry,	Grade 6	Salem Normal School G.	1912
Edith Merrill,	Grade 6	Gorham Normal School G.	1912
Martha E. Bradstreet,	Grade 5	Salem Normal School G.	1908
Louise Dearing,	Grade 5	Randolph Normal G.	1912
Winifred P. Upton,	Grade 4	Salem Normal School G.	1910
Helen Todd,	Grade 4	Worcester Normal G.	1912
Lillian W. Downing,	Grade 3	Salem Normal School G.	1896
Olive M. Adams,	Grade 3	Salem Normal School G.	1906
Agnes M. Moore,	Grade 2	Wheelock Kindergarten Training School G.	1903
Beulah T. Currier,	Grade 2	Newburyport Training School G.	1911
Mary A. Marston,	Grade 1	Beverly Training G.	1894
Florence A. Monroe,	Grade 1	Beverly Training G.	1898
Bessie Jardine,	Coach	Worcester Normal G.	1911

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Schools and Teachers	Position	Where Educated	Elected
HIGH			
B. Sumner Hurd,	Principal	A.M. Bates College,	1885
Harold C. Childs,	Sub-master	A.M. Brown University,	1908
Elston E. Gaylord,	Sub-master	Indiana Normal, Cedar Rapids Business College G.	1899
Otis M. Riggs,	Sub-master	S.B. Harvard College,	1910
Ruby S. Baker,	Assistant	Lowell Normal School G., Radcliffe College 1 yr.	1906
Jennie A. Cole,	Assistant	Dennison University G.	1890
Carrie L. Comings,	Assistant	B.S. N.H. State College, Dover Business College G.	1905
*Mabel L. Butler,	Assistant	A.B. Mt. Holyoke College,	1910
Joseph D. Danforth,	Assistant	Tufts College G.	1912
Isabel D. Davidson,	Assistant	Arcadia College G.	1909
E. Antoinette Davis,	Assistant	Dennison University G.	1891
Marion R. Dexter,	Assistant	A.B. Bates College,	1909
Elizabeth P. Emmons,	Assistant	Farmington Normal School G.	1912
Priscilla Alden,	Assistant	Normal Art School G.	1912
Carl E. Herrick,	Assistant	Beverly High School G.	1912
Walter W. Herrick,	Assistant	A.B. Williams College,	1908
Maleen P. Hicks,	Assistant	A.B. Bates College,	1901
Mary A. Hird,	Assistant	A.B. Western Reserve Uni.	1904
Elizabeth A. Horne,	Assistant	A.B. Boston University,	1907
Laura E. Horne,	Assistant	Salem Normal School, G.	1893
Effie M. Lowe,	Assistant	A.B. Colby University,	1910
*Lucy H. Melcher,	Assistant	A.B. Smith College,	1911
Laura M. Rogers,	Assistant	A.B. Smith College,	1909
Ruby Sanborn,	Assistant	A.B. Mt. Holyoke College,	1909
Helen C. Skinner,	Assistant	Wellesley College G.	1912
Florence E. Teasdale,	Assistant	Smith College 2 yrs., Worcester Business College G.	1909
A. Lilla Wilde,	Assistant	Tilden Seminary, G.	1870
Marion Woodworth,	Assistant	Radcliffe College G.	1912
PLEASANT VIEW			
Winnie M. Williams,	Principal	Worcester Normal G.	1903
Grace E. Hood,	Grade 4	Salem Normal School G.	1909
Katherine S. Enlind,	Grade 3	Salem Normal School G.	1905
Sarah D. Kinsman,	Grade 2	Stevens High, Claremont, N.H. G.	1894
Aimie A. Woodberry,	Grade 1	Beverly Training G.	1897
PROSPECT			
Elizabeth B. Fuller,	Principal	Farmington Normal G.	1900
Bertha M. Petrie,	Grade 7	Salem Normal School G.	1907
Elizabeth P. Lefavour,	Grade 6	Salem Normal School G.	1907
Alice M. Preston,	Grade 5	Beverly Training G.	1898
Harriet L. Abbott,	Grade 4	Bridgewater Normal G.	1906
Harriet M. Colby,	Grade 3	Johnson Vt. Normal G.	1907
Ruth A. McKay,	Grade 2	Salem Normal School G.	1904
Lillian P. Smith,	Grades 1–2	Salem Normal School G.	1905
Mabel M. Perter,	Grade 1	Salem Normal School G.	1891
Cora O. Reynolds,	Coach	Perry Kindergarten G.	1911
RIAL SIDE			
Minnie A. Johnson,	Principal	Castleton Normal G.	1902
Edna L. Ferguson,	Grade 8	Westford Academy, Putnam Hall, So. Dartmouth,	1900
Elizabeth B. McLean,	Grade 7	Framingham Normal G.	1911
Helen F. Duane,	Grade 6	Salem Normal School,	1909
Clara B. Tuttle,	Grade 5	N.H. State Normal,	1909
Elizabeth Taaffe,	Grade 4	Salem Normal School, G.	1905
Maude A. Fowler,	Grade 3	Salem Normal School G.	1910
Martha T. Robinson,	Grade 2	Salem Normal School G.	1903
Isa Buffington	Grade 2	Framingham Normal G.	1912
Carrie Wetherbee,	Grade 1	Fitchburg Normal G.	1912
Helen C. Cooper,	Grade 1	Chauncey Hall Kindergarten, Boston Normal,	1908
SOUTH			
Winnie M. Williams,	Principal	Worcester Normal School G.	1903
Eleanor M. Varney,	Grade 7	Gorham Normal School G.	1902
S. Helen Kennison,	Grade 7	Beverly Training School G.	1907
Nellie F. Harrison,	Grade 6	Salem Normal School G.	1907

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Schools and Teachers	Position	Where Educated	Elected
SOUTH—continued			
Ethel S. Swett,	Grade 6	Salem Normal School G.	1908
Fannie O. Johanson,	Grade 5	Salem Normal School G.	1911
Mary L. Woodberry,	Grade 5	Chelsea Training G.	1885
Floy French,	Grade 4	Framingham Normal School G.	1912
Alice O. Gates,	Grades 3–4	Fitchburg Normal School G.	1911
Louise M. Hawkes,	Grade 3	Salem Normal School G.	1886
Clara F. Bell,	Grade 2	Beverly Training School G.	1894
Viola E. Crittendon,	Grade 2	Wesleyan Academy G.	1902
Avis Carleton,	Grade 1	Salem Normal School G.	1909
Grace Merriam,	Grade 1	Fitchburg Normal School G.	1912
Mabel Mathews,	Coach	Rhode Island Normal School G.	1912
WASHINGTON			
Emma McC. Driver,	Principal	Beverly High G., Hyannis and Harvard Summer Schools,	1890
Beulah Moody,	Grade 8 Com.	Salem Normal School G.	1912
Abbie N. Croscup,	Grade 8	Salem Normal School G.	1910
Evolyn A. Greenlaw,	Grade 8	Castine Normal School G.	1906
Addie B. Hobbs,	Grade 8	Boston University,	1902
Josephine F. Minard,	Grade 8	Salem Normal School,	1905
Ruth A. Small,	Grade 8	Bridgewater Normal School G.	1912
Clara M. L'Heureux,	Grade 7	Killingly High, Hyannis Summer School G.	1910
Margaret F. Herlihy,	Grade 6	Salem Normal School G.	1904
Grace B. Applebee,	Grade 5	N.H. State Normal School G.	1909
Geneva H. Lane,	Grade 4	Farmington Normal School G.	1911
Elizabeth H. Lefavour,	Grade 4	Emerson School of Oratory G.	1909
Anna Coe,	Grade 3	Worcester Normal School 1 yr.,	1912
Katherine A. Johnson,	Grade 2	Fisher Kindergarten G.	1911
Elizabeth A. Flemming,	Grade 2	Salem Normal School G.	1908
Grace E. Dennis,	Grade 1	Salem Normal School G.	1906
Marion H. Blood,	Grade 1	Salem Normal School G.	1911
Elizabeth P. Martin,	Coach	Salem Normal School G.	1907

SPECIAL TEACHERS

Supervisor of Drawing, L. HELEN SARGENT
Educated—Mass. Normal Art School. Elected 1911

Supervisor of Manual Training, CHARLES L. PEIRCE
Educated—Mass. Normal Art School. Elected 1910

Assistant Supervisor of Manual Training, HARRY GAY
Educated—Fitchburg Normal School. Elected 1911

*Supervisor of Music, GEORGE F. WILSON
Educated—Boston Conservatory of Music. Elected 1889

Supervisor of Music, JAMES W. CALDERWOOD
Educated—Ariel College. Elected 1912

Assistant Supervisor of Music, GERTRUDE W. DEXTER
Educated—Bridgewater Normal School. Elected 1912

Supervisor of Penmanship, EFFIE E. COLBY
Educated—Johnson, Vermont Normal School. Elected 1905

Supervisor of Sewing, ELIZABETH WOODBERRY
Educated—Beverly High School. Elected 1907

Supervisor of Domestic Science, ANA C. SARGENT
Educated—Boston School of Domestic Science. Elected 1911

Assistant Supervisor of Domestic Science, JENNIE T. PALSON
Educated—Framingham Normal School. Elected 1912

* Leave of absence.

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1911–1912

Valuation of City, April 1, 1912	$39,005,340
Valuation of City, April 1, 1911	$38,330,245
Increase in Valuation	$675,095
Population, 1912, Estimated	20,000
Population, 1911, Estimated	20,000
Number of Public School Buildings	12
Number of Rooms in School Buildings, June 30, 1912	133
Number of Seats in Rooms, June 30, 1912	6,118
Average Number of Seats in each Room, June 30, 1912	46
Annual Appropriation for Schools, 1912	$148,096
Annual Appropriation for Schools, 1911	$126,973
Increase in Appropriation	$21,122
Number of Positions, December 31, 1912	143
High School	30
Elementary Schools	104
Supervisor of Music	1
Assistant Supervisor of Music	1
Supervisor of Drawing	1
Supervisor of Manual Training	1
Assistant Supervisor of Manual Training	1
Supervisor of Penmanship	1
Supervisor of Sewing	1
Supervisor of Domestic Science	1
Assistant Supervisor of Domestic Science	1
Superintendent	1
Number of New Positions in 1912	8
Number of Resignations	13
Number Transferred	1
Number Elected	24

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VALUATION OF SCHOOL BUILDINGS AND LAND BELONGING THERETO, IN BEVERLY, MASS., FOR 1912

Schools	Buildings	Land Area	Value of Land	Total Value
Bass River	$7,000	37,500 ft.	$1,000	$8,000
Centerville	3,000	43,560 ft.	500	3,500
Cove	12,000	32,375 ft.	2,000	14,000
Farms	47,000	49,352 ft.	3,000	50,000
Hardie	45,000	43,560 ft.	5,000	50,000
High	164,000	43,560 ft.	7,000	171,000
McKay	65,000	146,000 ft.	1,000	66,000
Pleasant View	6,000	15,000 ft.	1,500	7,500
Prospect	37,000	30,750 ft.	3,000	40,000
Rial Side	40,000	65,340 ft.	2,700	42,700
South	35,000	32,400 ft.	3,000	38,000
Washington	85,000	46,400 ft.	7,000	92,000
Totals	$546,000	13 acres 17,717 ft.	$36, 700	$582,700

Value of School Buildings	$546,000
Value of Land Belonging	36,700
Total Value	$582,700

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NUMBER OF TEACHERS IN THE BEVERLY SCHOOLS FOR A SERIES OF YEARS, 1900–1912, AS SHOWN IN DECEMBER, 1912

Years	High	Elementary	Special	No. of Men	No. of Women	Total
1900	11	55	2	5	63	68
1901	11	61	2	6	68	74
1902	12	62	2	7	69	76
1903	13	63	2	6	72	78
1904	18	65	3	10	76	86
1905	19	69	4	10	82	92
1906	22	75	4	9	92	101
1907	24	76	4	9	95	104
1908	25	80	4	9	100	109
1909	26	82	6	12	103	114
1910	25	90	6	12	109	121
1911	26	82	7	9	116	125
1912	30	104	9	11	132	143

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TABLE OF STATISTICS FOR THE YEAR ENDING JUNE, 1912

Schools	Grade	Enrolment	Whole Number	Av. Membership	Av. Attendance	Over 15	Between 8 and 14	Between 7 and 14
Bass River	8	15	15	13	13	2	11	11
Bass River	7	23	26	22	21	0	20	20
Bass River	6	13	17	14	13	0	14	14
Bass River	5	26	30	24	22	0	25	25
Bass River	4	17	21	18	17	0	22	22
Bass River	3	24	26	19	18	0	13	24
Bass River	2	20	24	17	16	0	5	14
Bass River	1	19	23	20	17	0	1	2
Centerville	8	5	5	4	4	0	5	5
Centerville	7	8	9	7	7	0	9	9
Centerville	6	12	13	11	11	0	12	12
Centerville	5	7	7	6	6	0	7	7
Centerville	4	8	9	8	7	0	8	9
Centerville	3	7	9	7	7	0	5	9
Centerville	2	7	7	6	6	0	1	4
Centerville	1	19	22	19	17	0	0	1
Cove	8	17	18	16	14	1	16	16
Cove	7	19	20	18	17	0	17	17
Cove	6	16	18	13	13	0	18	18
Cove	5	21	21	18	17	0	21	21
Cove	4	20	23	20	20	0	22	23
Cove	3	25	29	23	22	0	12	28
Cove	2	19	22	15	14	0	4	9
Cove	1	26	26	23	21	0	0	0
Farms	8	20	20	18	17	4	12	12
Farms	7	24	24	22	20	0	17	17
Farms	6	22	23	21	19	2	20	20
Farms	5	23	26	22	21	0	25	25
Farms	4	40	40	35	33	0	40	40
Farms	3	35	36	30	29	0	28	35
Farms	2	33	35	29	27	0	11	12
Farms	1	21	23	19	17	0	1	2
Hardie	7	59	60	52	47	1	51	51
Hardie	6	78	84	70	66	0	80	80
Hardie	5	50	56	48	45	0	49	49
Hardie	4	79	88	79	74	0	85	85
Hardie	3	69	82	62	59	0	66	82
Hardie	2	75	94	72	67	0	48	83
Hardie	1	56	74	55	50	0	7	16
High	13	94	94	82	76	92	0	0
High	12	83	83	76	70	83	0	0
High	11	135	135	124	115	130	0	0
High	10	182	182	172	164	133	9	9
High	9	260	262	258	249	183	70	70
McKay	8	17	19	17	16	2	9	9
McKay	7	14	15	13	13	1	9	9
McKay	6	18	19	17	17	0	19	19
McKay	5	20	27	24	20	0	26	26
McKay	4	22	47	33	31	0	47	47
McKay	3	25	51	34	32	0	43	50
McKay	2	29	34	26	24	0	11	16
McKay	1	34	44	28	24	0	4	5

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TABLE OF STATISTICS FOR THE YEAR ENDING JUNE, 1912—(Continued)

Schools	Grade	Enrolment	Whole Number	Av. Membership	Av. Attendance	Over 15	Between 8 and 14	Between 7 and 14
Pleasant View	4	36	40	33	31	0	40	40
Pleasant View	3	31	37	29	28	0	7	37
Pleasant View	2	28	31	26	25	0	10	26
Pleasant View	1	40	45	35	33	0	3	14
Prospect	7	39	45	40	38	4	39	39
Prospect	6	40	51	41	39	1	8	8
Prospect	5	41	52	41	38	0	51	51
Prospect	4	51	57	38	36	0	56	56
Prospect	3	46	64	43	40	0	53	64
Prospect	2	46	57	45	43	0	25	44
Prospect	1	70	87	65	60	0	3	15
Rial Side	8	30	30	27	25	7	12	12
Rial Side	7	27	30	23	21	0	23	23
Rial Side	6	38	42	36	34	0	39	39
Rial Side	5	35	39	31	29	0	38	38
Rial Side	4	43	45	39	37	0	44	44
Rial Side	3	42	49	40	37	0	41	49
Rial Side	2	43	49	40	36	0	22	43
Rial Side	1	57	63	51	45	0	4	12
South	7	73	77	68	63	2	55	55
South	6	92	97	84	78	0	91	91
South	5	72	78	68	64	2	75	75
South	4	71	82	63	59	0	81	81
South	3	61	81	60	56	0	75	81
South	2	64	71	60	56	0	23	56
South	1	71	83	67	60	0	4	27
Washington	8	156	234	143	135	14	119	119
Washington	7	30	34	29	25	2	24	24
Washington	6	43	48	34	31	3	39	39
Washington	5	65	72	57	52	0	71	71
Washington	4	42	52	41	37	1	41	41
Washington	3	73	84	66	61	0	69	80
Washington	2	43	57	40	37	0	23	31
Washington	1	100	116	78	67	1	25	57
Totals 1912	——	3848	4396	3576	3338	671	2388	2771
Totals 1911	——	3593	3955	3377	3076	424	2096	2400
Totals 1910	——	3465	3700	3321	3086	490	1924	2194
Totals 1909	——	3379	3625	3211	2962	446	1793	2116
Totals 1908	——	3205	3540	2997	2801	378	1719	2006
Totals 1907	——	3073	3323	2887	2671	412	1764	2003

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WHOLE NUMBER OF PUPILS IN SCHOOL, SEPTEMBER, 1912

SCHOOLS	Grade I			Grade II			Grade III			Grade IV			Grade V			Grade VI			Grade VII			Grade VIII		
	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.
Bass River	12	16	28	8	12	20	13	8	21	7	10	17	12	9	21	16	11	27	9	8	17	8	12	20
Centerville	4	4	8	8	9	17	2	3	5	4	3	7	3	7	10	4	2	6	8	3	11	0	4	4
Cove	11	8	19	12	7	19	5	11	16	14	8	22	12	9	21	8	10	18	6	5	11	11	9	20
Farms	10	13	23	19	6	25	17	14	31	21	13	34	21	16	37	11	10	21	B. 3 H. 5	9 7	24	6	15	21
Hardie	39	13	23	38	23	61	35	35	70	33	29	62	43	34	77	26	24	50	32	34	66	....	....	....
McKay	17	11	28	14	5	19	17	19	36	26	14	40	18	20	38	12	10	22	9	9	18	5	4	9
Pleasant View	23	15	38	15	15	30	14	10	24	14	15	29	....	....	....	....	....	....	....	....	....	....	....	....
Prospect	29	35	64	20	30	50	23	17	40	16	22	38	14	17	31	15	22	37	29	15	44	....	....	....
Rial Side	29	32	61	25	23	48	21	17	38	22	21	43	26	17	43	14	21	35	19	18	37	9	11	20
South	46	26	72	27	34	61	35	18	53	27	28	55	56	42	98	32	30	62	43	37	80	....	....	....
Washington	31	40	71	41	36	77	26	21	47	30	34	64	20	16	36	20	32	52	13	12	25	81	96	177
High	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Totals by Grades	251	238	489	227	200	427	208	173	381	214	197	411	225	187	412	158	172	330	176	157	333	120	151	271

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WHOLE NUMBER OF PUPILS IN SCHOOL, SEPTEMBER, 1912—(Continued)

SCHOOLS	Grade IX			Grade X			Grade XI			Grade XII			Grade XIII			Totals by Schools		
	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.	B.	G.	T.
Bass River	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	85	86	171
Centerville	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	33	35	68
Cove	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	79	67	146
Farms	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	113	103	216
Hardie	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	246	217	463
McKay	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	118	92	210
Pleasant View	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	66	55	121
Prospect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	146	158	304
Rial Side	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	165	160	325
South	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	266	215	481
Washington	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	262	287	549
High	99	116	215	91	120	211	69	85	154	33	71	104	28	42	70	320	434	754
Totals by Grades	99	116	215	91	120	211	69	85	154	33	71	104	28	42	70	1899	1909	3808

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COMPARATIVE STATEMENT OF THE WHOLE NUMBER OF PUPILS IN SCHOOL IN SEPTEMBER FOR THE SERIES OF YEARS, 1902–1912

Totals by Grades	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	Total by Schools
September, 1912	489	427	381	411	412	330	333	271	215	211	154	104	70	3808
September, 1911	490	399	435	424	351	368	315	259	259	179	133	83	92	3787
September, 1910	463	375	410	338	380	321	291	286	226	170	103	108	75	3546
September, 1909	450	406	322	347	338	317	326	223	188	129	129	83	91	3372
September, 1908	371	393	339	326	356	344	277	240	165	155	99	105	70	3240
September, 1907	397	319	346	331	358	292	287	195	176	112	127	76	62	3078
September, 1906	376	335	305	332	325	304	248	225	150	139	98	82	64	2983
September, 1905	395	319	322	314	324	252	246	188	164	112	99	84	51	2870
September, 1904	353	327	291	306	270	260	235	204	124	121	95	54	61	2701
September, 1903	358	322	311	267	289	277	229	159	124	109	66	67	44	2622
September, 1902	382	289	272	282	321	243	202	159	120	76	76	44	.....	2466

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NUMBER OF PUPILS AND THEIR AVERAGE AGE BY GRADES, JUNE 30, 1912

GRADES	I						II						III						IV						V					
SCHOOLS	No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls	
			Years	Months	Years	Months			Years	Months	Years	Months			Years	Months	Years	Months			Years	Months	Years	Months			Years	Months	Years	Months
	B.	G.					B.	G.					B.	G.					B.	G.					B.	G.				
Bass River	12	11	6	6	6	7	15	9	7	5	8	5	10	16	10	4	8	5	11	10	10	6	9	4	15	15	11	6	11	6
Centerville	9	13	6	7	6	6	3	4	7	7	8	1	4	5	9	4	8	5	4	5	10	6	9	4	5	2	12	6	10	1
Cove	19	7	5	6	5	6	8	14	6	7	7	4	18	11	8	4	7	5	14	9	9	4	9	3	9	12	11	4	10	3
Farms	16	7	5	5	5	8	16	19	7	6	7	6	21	15	8	6	8	5	24	16	10	4	9	5	12	14	11	5	10	4
Hardie	37	37	5	5	5	6	46	48	7	4	7	4	39	43	8	5	8	5	48	40	10	4	9	5	29	27	10	5	10	5
High	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
McKay	31	13	6	5	6	5	18	16	7	5	7	6	34	17	8	5	8	6	23	24	10	4	10	5	13	14	11	4	11	7
Prospect	40	47	6	5	6	5	35	22	7	5	7	5	34	30	8	6	8	5	26	31	9	5	9	4	22	30	11	5	11	5
Rial Side	39	24	6	6	6	6	25	24	8	3	7	6	27	22	8	4	8	5	28	17	9	5	10	5	17	22	10	5	10	6
South and Pleasant View	78	50	5	6	6	4	57	45	7	5	7	5	55	63	8	5	8	4	65	57	10	5	9	5	35	43	10	6	11	6
Washington	57	59	7	5	6	5	25	32	8	5	8	5	48	36	9	5	8	5	23	29	10	5	10	5	26	46	11	6	11	5
Totals	338	268	6	5	6	5	248	233	7	5	7	4	290	258	8	4	8	5	266	238	10	4	9	4	183	225	10	5	10	4

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NUMBER OF PUPILS AND THEIR AVERAGE AGE BY GRADES, JUNE 30, 1912—(Continued)

GRADES	VI						VII						VIII						IX						X					
SCHOOLS	No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls		No. of Pupils		Average Age Boys		Average Age Girls	
	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months
Bass River	10	7	12	2	12	5	12	14	12	5	12	4	4	11	13	7	13	5	....	....	..	..	..	..	....	....	..	..	..	..
Centerville	8	5	11	8	11	3	1	8	13	1	12	5	1	4	14	0	13	6	....	....	..	..	..	..	....	....	..	..	..	..
Cove	10	8	11	4	11	3	12	8	12	5	12	5	9	9	13	5	13	5	....	....	..	..	..	..	....	....	..	..	..	..
Farms	9	14	12	6	11	6	9	15	12	5	12	7	11	9	14	4	13	5	....	....	..	..	..	..	....	....	..	..	..	..
Hardie	45	39	11	4	11	5	35	25	12	6	12	7	....	....	..	..	..	..	....	....	..	..	..	..	....	....	..	..	..	..
High	....	....	..	..	..	..	....	....	..	..	..	..	....	....	..	..	..	..	116	146	14	4	14	5	83	99	15	5	15	5
McKay	9	10	11	6	11	5	9	6	13	7	13	6	14	5	13	4	13	4	....	....	..	..	..	..	....	....	..	..	..	..
Prospect	30	21	12	5	12	6	25	20	12	5	12	5	....	....	..	..	..	..	....	....	..	..	..	..	....	....	..	..	..	..
Rial Side	19	23	11	5	11	5	13	17	13	5	13	5	20	10	14	6	13	6	....	....	..	..	..	..	....	....	..	..	..	..
South and Pleasant View	51	46	12	4	12	5	35	42	13	4	12	6	....	....	..	..	..	..	....	....	..	..	..	..	....	....	..	..	..	..
Washington	25	23	12	5	12	4	11	23	13	5	13	5	132	102	13	4	13	5	....	....	..	..	..	..	....	....	..	..	..	..
Totals	216	196	11	5	11	4	162	178	12	5	12	5	191	150	13	4	13	3	116	146	14	4	14	5	83	99	15	5	15	5

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NUMBER OF PUPILS AND THEIR AVERAGE AGE BY GRADES, JUNE 30, 1912—(Continued)

GRADES	XI						XII						XIII						TOTALS
SCHOOLS	No. of Pupils		Average Age				No. of Pupils		Average Age				No. of Pupils		Average Age				No. of Pupils in Each School
			Boys		Girls				Boys		Girls				Boys		Girls		
	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months	B.	G.	Years	Months	Years	Months	
Bass River																			182
Centerville																			81
Cove																			177
Farms																			227
Hardie																			538
High	44	91	16	4	16	5	35	48	17	5	17	4	31	63	18	4	18	4	756
McKay																			256
Prospect																			413
Rial Side																			347
South and Pleasant View																			722
Washington																			697
Totals	44	91	16	4	16	5	35	48	17	5	17	4	31	63	18	4	18	4	4396

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AGE OF PUPILS, JUNE 30, 1912

GRADES	5 Years Old		6 Years Old		7 Years Old		8 Years Old		9 Years Old		10 Years Old		11 Years Old		12 Years Old		13 Years Old		14 Years Old	
	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.
Grade I	.....	.....	147	124	122	97	45	32	13	9	5	5	3	.....	2	1	....	.....	.....	....
Grade II	.....	.....	1	2	85	85	98	83	40	41	16	12	7	7	1	4	....	.....	.....	....
Grade III	.....	.....	.....	.....	4	1	72	90	101	104	67	43	31	10	10	9	3	1	2	....
Grade IV	.....	.....	.....	.....	.....	.....	.....	1	60	67	88	91	48	46	33	19	21	8	12	4
Grade V	.....	.....	.....	.....	.....	.....	.....	.....	1	2	48	53	53	60	49	56	16	31	10	13
Grade VI	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	40	40	72	75	52	45	30	27
Grade VII	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	33	40	51	65	39	43
Grade VIII	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	30	32	80	60
Grade IX	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1 1	.....	.....	.....	5	28	34
Grade X	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3
Grade XI	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Grade XII	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Grade XIII	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Totals	0	0	148	126	211	183	215	206	215	223	227	205	185	165	200	205	173	187	203	184

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AGE OF PUPILS, JUNE 30, 1912—(Continued)

GRADES	15 Years Old		16 Years Old		17 Years Old		18 Years Old		19 Years Old		20 Years Old		21 Years Old		Average Age		Number of Pupils in Each Grade	
	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.	B.	G.
Grade I	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.5	6.5	338	268
Grade II	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.5	7.4	248	233
Grade III	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.4	8.5	290	258
Grade IV	3	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	10.4	9.4	266	238
Grade V	4	9	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.5	10.4	183	225
Grade VI	16	6	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.5	11.4	216	196
Grade VII	22	23	11	5	3	1	.....	.....	.....	.....	.....	.....	.....	.....	12.5	12.5	162	178
Grade VIII	60	37	16	14	3	4	2	2	.....	.....	.....	.....	.....	.....	13.5	13.3	191	150
Grade IX	46	53	36	36	3	13	3	4	.....	.....	.....	.....	.....	.....	14.4	14.5	116	146
Grade X	13	27	40	42	20	22	5	3	3	2	.....	.....	.....	.....	15.5	15.5	83	99
Grade XI	1	1	10	24	14	42	12	16	6	8	1	.....	.....	.....	16.4	16.5	44	91
Grade XII	.....	.....	.....	1	13	20	14	12	5	12	3	2	.....	1	17.5	17.4	35	48
Grade XIII	.....	.....	1	.....	1	2	6	19	17	23	5	16	1	3	18.4	18.4	31	63
Totals	165	157	120	125	57	105	43	56	31	45	9	18	1	4	.....	.....	2203	2193

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NUMBER OF PUPILS WHO ENTERED THE FIRST GRADE OF THE BEVERLY SCHOOLS FOR THE FIRST TIME, DURING SEPTEMBER 1912

Schools	Boys	Girls	Total
Bass River	11	14	25
Centerville	3	1	4
Cove	9	9	18
Farms	10	12	22
Hardie	40	33	73
McKay	11	10	21
Pleasant View	15	13	28
Prospect	25	31	56
Rial Side	25	28	53
South	39	21	60
Washington	29	34	63
Totals	217	206	423

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STATISTICS OF THE SCHOOL CENSUS SEPTEMBER 1, 1912

Districts	Between 5 and 15 Boys	Girls	Totals	Between 7 and 14 Boys	Girls	Totals
Bass River	89	100	189	66	66	132
Cove	37	41	78	26	26	52
Centerville	92	87	179	64	60	124
Farms	140	125	265	100	82	182
Hardie	300	275	575	208	187	395
McKay	122	92	214	79	61	140
Prospect	233	148	381	163	166	329
Rial Side	185	164	349	123	110	233
South and P. View	386	363	749	262	256	518
Washington	197	211	408	141	154	295
Totals 1912	1781	1606	3387	1232	1168	2400
Totals, 1911	1764	1728	3492	1239	1226	2465
Totals, 1910	1686	1648	3334	1191	1129	2320
Totals, 1909	1575	1546	3121	1096	1068	2164
Totals, 1908	1508	1471	2979	1047	1031	2078
Totals, 1907	1452	1436	2888	1016	986	2002
Totals, 1906	1365	1380	2745	978	968	1946
Totals, 1905	1327	1324	2651	927	977	1906
Totals, 1904	1291	1305	2596	898	928	1826
Totals, 1903	1270	1260	2530	888	914	1802

NUMBER IN SCHOOL OVER 15 YEARS OF AGE JUNE 30, 1912

Elementary Schools		High School	Boys	Girls	Totals
Bass River	2				
Cove	1	Grade IX	77	106	183
Farms	6	Grade X	58	75	133
Hardie	1	Grade XI	40	90	130
McKay	3	Grade XII	35	48	83
Prospect	5	Grade XIII	29	63	92
Rial Side	7				
South	4	Total	239	382	621
Washington	21				
Total	50				

Total Number over 15 years of age.....671

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REPORT OF SIGHT AND HEARING TESTS BY GRADES AND SCHOOLS, OCTOBER, 1912

SCHOOLS	Grade I				Grade II				Grade III				Grade IV				Grade V				Grade VI				Grade VII			
	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	ment E	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications
Bass River	25	1	0	0	23	0	0	0	22	3	0	1	16	1	0	0	21	3	0	0	27	1	0	0	17	2	0	2
Centerville	6	0	0	0	17	1	0	1	5	0	0	0	6	1	0	1	10	1	0	1	6	2	0	2	12	1	0	1
Cove	25	2	0	0	20	5	0	0	17	4	1	1	20	4	0	1	22	8	3	4	18	5	9	3	11	2	0	2
Farms	22	0	0	0	26	1	0	1	31	4	0	4	34	3	0	2	37	1	0	1	21	2	0	2	24	11	0	5
Hardie	82	8	2	2	60	6	1	1	68	6	0	4	62	11	1	2	80	13	1	3	38	5	2	5	66	9	0	4
McKay	28	0	0	0	20	0	0	0	39	3	1	2	41	4	1	3	38	4	0	1	23	1	0	0	23	4	0	2
Pleasant View	36	1	2	2	33	3	0	3	26	3	0	3	30	2	0	2	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .
Prospect	68	7	2	3	59	4	2	4	42	3	0	1	38	4	0	4	32	4	1	2	42	4	0	1	45	0	0	0
Rial Side	61	5	1	1	49	9	2	0	38	2	0	2	39	2	0	2	47	0	1	0	32	8	1	3	38	3	1	2
South	68	17	1	1	58	11	0	5	56	12	1	7	55	20	4	8	91	12	7	14	63	23	0	10	76	16	11	7
Washington	69	1	1	0	70	6	5	3	47	3	4	7	65	11	6	8	39	9	2	0	51	16	3	6	25	2	2	0
Totals	490	42	9	9	435	46	10	18	391	43	7	29	406	63	12	33	417	55	15	26	321	67	15	32	337	50	14	25

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REPORT OF SIGHT AND HEARING TESTS BY GRADES AND SCHOOLS, OCTOBER, 1912—(Continued)

SCHOOLS	Grade VIII				Grade IX				Grade X				Grade XI				Grade XII				Grade XIII				TOTALS			
	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications	Enrolment	Sight	Hearing	Notifications
Bass River	20	1	1	0	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	171	10	3	2
Centerville	4	0	0	0	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	66	6	9	6
Cove	21	3	0	3	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	154	33	13	14
Farms	21	5	1	4	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	216	27	1	19
Hardie	..	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	456	58	7	21
McKay	9	0	0	0	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	220	12	1	7
Pleasant View	..	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	125	9	2	10
Prospect	..	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	324	20	5	4
Rial Side	20	0	1	1	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	324	29	7	11
South	..	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	467	111	24	52
Washington	176	17	2	8	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	....	..	..	..	542	65	25	32
High	..	..	..	..	208	32	24	21	207	34	12	34	146	20	5	18	101	16	0	5	59	10	0	6	721	102	41	84
Totals (Elementary and High)	271	26	5	16	208	32	24	21	207	34	12	34	146	20	5	18	101	16	0	5	59	10	0	6	3786	482	129	262

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TABULATION OF PROMOTIONS BY SCHOOLS AND BY GRADES, JUNE 30, 1912

SCHOOLS	Grade I							Grade II							Grade III							Grade IV							Grade V						
	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.
Bass River	19	16	84	0	00	3	16	17	9	53	6	35	2	12	20	13	65	3	15	4	20	18	11	61	6	33	1	6	23	17	74	6	26	10	00
Centerville	19	15	88	1	5	3	17	6	6	100	0	00	0	00	8	8	100	0	00	0	00	8	7	88	1	12	0	00	7	6	86	1	14	0	00
Cove	23	14	61	3	13	6	26	17	14	82	2	12	1	6	23	19	83	0	00	4	17	21	15	71	5	24	1	6	18	12	67	4	22	2	11
Farms	20	18	90	2	10	0	00	29	28	97	1	3	0	00	32	31	97	1	3	0	00	35	27	77	8	23	0	00	21	21	100	0	00	0	00
Hardie	53	43	81	4	8	6	11	73	60	82	6	8	7	10	60	54	90	3	5	3	5	78	69	88	5	7	4	5	49	47	96	0	00	2	4
McKay	32	21	65	2	7	9	28	24	17	71	5	21	2	8	41	32	78	6	15	3	7	43	35	82	4	9	4	9	25	21	84	3	12	1	4
Prospect	65	38	58	14	22	13	20	47	40	85	3	6	4	9	38	30	79	3	8	5	13	31	20	65	8	26	3	9	41	32	78	5	12	4	10
Rial Side	50	38	76	3	6	9	18	40	36	90	1	2	3	8	42	37	88	4	10	1	2	41	38	93	3	7	0	00	33	30	91	2	6	1	3
South	68	41	60	13	19	14	21	61	42	69	12	20	7	11	57	54	95	3	5	0	00	66	63	95	1	2	2	3	65	59	91	6	9	0	00
Pleasant View	36	30	83	1	3	5	14	25	23	92	1	4	1	4	34	24	71	9	26	1	3	35	24	69	9	26	2	5	...	...	...	...	...	...	...
Washington	78	61	78	8	10	9	12	43	37	86	3	7	3	7	44	38	86	6	14	0	00	38	31	82	4	11	3	7	52	44	85	6	12	2	3
Totals by Grades	463	335	75	51	9	77	16	382	312	82	40	10	30	8	399	340	85	38	9	21	6	414	340	79	54	16	20	5	334	289	85	33	11	12	4

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TABULATION OF PROMOTIONS BY SCHOOLS AND BY GRADES, JUNE, 30, 1912—(Continued)

SCHOOLS	Grade VI							Grade VII							Grade VIII							Totals by Schools						
	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.	Number of Pupils	Uncon. Promotions	Per cent.	Condit. Promotions	Per cent.	Not Promoted	Per cent.
Bass River	14	10	71	4	29	0	00	21	16	76	4	19	1	5	14	13	93	1	7	0	00	146	105	72	30	21	11	7
Centerville	11	10	91	1	9	0	00	8	6	75	2	25	0	00	5	5	100	0	00	0	00	72	63	91	6	8	3	1
Cove	14	9	64	4	29	1	7	19	13	68	5	27	1	5	16	14	88	1	6	1	6	151	110	73	24	17	17	10
Farms	22	18	82	4	18	0	00	21	16	76	5	24	0	00	19	19	100	0	00	0	00	199	178	90	21	10	0	00
Hardie	66	59	89	5	8	2	3	48	43	90	3	7	2	3	...	...	...	...	...	...	...	427	375	88	26	6	26	6
McKay	19	16	84	3	16	0	00	15	13	87	0	00	2	13	17	12	71	2	12	3	17	216	167	78	25	12	24	10
Prospect	41	33	80	5	12	3	8	40	32	80	3	6	5	14	...	...	...	...	...	...	...	303	225	75	41	13	37	12
Rial Side	38	32	84	3	8	3	8	22	21	95	0	00	1	5	26	24	92	2	8	0	00	292	256	88	18	6	18	6
South	85	70	80	14	16	1	4	108	101	94	5	4	2	2	...	...	...	...	...	...	...	510	430	83	54	10	26	7
Pleasant View	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	130	101	79	20	15	9	6
Washington	29	23	79	4	14	2	7	24	23	96	1	4	0	00	132	114	86	16	12	2	2	440	371	85	48	11	21	4
Totals by Grades	339	280	80	47	16	12	4	326	284	84	28	12	14	4	229	201	90	22	6	6	4	2886	2381	83	313	11	192	6

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APPROXIMATE NUMBER IN HIGH SCHOOL SEPTEMBER, 1912

Grade 9	239
Grade 10	236
Grade 11	167
Grade 12	116
Grade 13	67
Total	825

Grade IX

Study	Scientific or Normal Course	Commercial	Total	Divisions
Algebra	94	145	239	4–6
Domestic Science	21	19	40	1–1
Drawing, F.	62	80	142	2–3
Drawing, M.	20	33	55	1–1
English	94	145	239	4–6
Geography	0	145	145	6
History, G. & R.	64	35	99	2–1
Latin	94	0	94	4
Manual Training	17	33	50	1–1
Penmanship	6	145	151	6
Physics	83	109	192	4–5
Spelling	3	145	148	6

Grade X

Study	Scientific or Normal Course	Commercial	Total	Divisions
Algebra	103	0	103	4
Arithmetic	0	140	140	4
Botany	56	85	141	2–3
Domestic Science	0	1	1	
Drawing, F.	51	93	144	2–3
Drawing, M.	26	13	39	
English	105	132	237	4–4
French	88	93	181	3–3
History	62	83	145	2–3
Latin	67	0	67	2
Manual Training	6	6	12	

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Penmanship	45	132	177	2
Physics	71	66	137	3–3
Spelling	23	132	155	1–4

Grade XI

Study	Scientific or Normal Course	Commercial	Total	Divisions
Bookkeeping	0	85	85	2
Chemistry	64	10	74	3
Domestic Science	10	23	33	1
Drawing, F.	35	35	70	1–1
Drawing, M.	19	9	28	
English	82	84	166	3–3
French	73	18	91	3–1
Geometry	81	0	81	3
German	52	3	55	2
History	31	21	52	1–1
Latin	27	0	27	1
Manual Training	5	1	6	
Penmanship	27	84	111	1–3
Physiology and Zoology	31	13	44	1–1
Spelling	14	89	103	1–3

Grade XII

Study	Scientific, Normal or General Course	Commercial	Total	Divisions
Astronomy	13	1	14	1
Civil Government	0	58	58	2
Commercial Law	0	58	58	2
Domestic Science	1	0	1	
Drawing, F.	31	10	41	1
Drawing, M.	7	2	9	
English	58	60	118	2–2
French	41	0	41	2
Geology and Mineralogy	16	0	16	1
German	32	2	34	1
History	18	1	19	1
Latin	11	0	11	1
Mathematics	48	0	48	2
Penmanship	20	60	80	1–2
Physics	26	1	27	1
Shorthand and Typewriting	0	60	60	2

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Grade XIII

Study	Scientific, General or Normal Course	Commercial	Total	Divisions
Arithmetic	0	32	32	2
Bookkeeping	0	21	21	1
Chemistry	25	0	25	1
Drawing, F.	16	3	19	1
Drawing, M.	3	0	3	1
English	32	35	67	1–2
Geography	16	1	17	1
German	12	1	13	1
History and Civil Government	27	4	31	1
Latin	8	0	8	1
Mathematics	12	0	12	1
Penmanship	4	35	39	1
Shorthand and Typewriting	0	31	31	2

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BEVERLY HIGH SCHOOL

The following Table shows, through the different grades, the whole number of pupils in each subject, number in each subject leaving school, number dropping subject, and the per cent. dropping each subject from September, 1911, to June, 1912.

STUDIES	Grade IX				Grade X				Grade XI				Grade XII				Grade XIII				TOTALS			
	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study	Whole Number in Each Study	Number Left School	Number Dropped Study	Per cent Dropped Study
Algebra	252	27	6	3	96	3	0	0	0	0	0	0	46	6	0	0	4	0	1	25	398	36	7	1
Arithmetic	0	0	0	0	122	12	1	1	1	1	0	0	0	0	0	0	43	0	0	0	165	13	1	1
Botany	0	0	0	0	85	10	1	1	0	0	0	0	1	1	0	0	0	0	0	0	85	11	1	1
Bookkeeping	0	0	0	0	0	0	0	0	84	9	0	0	0	0	0	0	27	0	0	0	111	9	0	0
Chemistry	0	0	0	0	0	0	0	0	47	6	1	2	1	1	0	0	36	0	0	0	83	7	1	1
Civil Government	0	0	0	0	0	0	0	0	0	0	0	0	40	5	2	5	0	0	0	0	40	5	2	5
Commercial Law	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0
Drawing	215	12	4	2	171	8	0	0	81	9	0	0	45	2	0	0	48	2	0	0	560	33	4	1
English	252	27	0	0	203	15	0	0	145	13	0	0	94	10	1	1	98	4	1	1	792	69	2	2
French	0	0	0	0	164	9	7	4	80	4	0	0	39	5	0	0	1	0	1	100	284	18	8	2
Commercial Geography	135	21	2	1	0	0	0	0	2	0	2	100	0	0	0	0	0	0	0	0	137	21	4	2
Physical Geography	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	16	0	0	0
Geometry	0	0	0	0	0	0	0	0	61	4	2	3	1	0	1	100	20	0	1	5	82	4	4	4
German	0	0	0	0	0	0	0	0	56	2	1	2	24	2	0	0	17	1	0	0	97	5	1	1
Geology	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18	0	0	0
History	104	13	7	7	117	6	1	1	61	4	1	1	29	0	0	0	52	2	0	0	363	25	9	2
Latin	119	6	17	14	64	1	7	10	19	1	2	10	12	0	0	0	4	0	0	0	218	8	26	11
Manual Training	52	5	5	10	17	3	0	0	2	2	0	0	2	2	0	0	0	0	0	0	73	12	5	7
Penmanship	177	22	1	1	138	13	0	0	99	9	0	0	50	6	0	0	64	4	1	2	528	54	2	3
Physics	208	23	3	1	124	8	2	2	0	0	0	0	30	2	0	0	0	0	0	0	362	33	5	1
Physiology	0	0	0	0	0	0	0	0	36	2	0	0	1	1	0	0	0	0	0	0	37	3	0	0
Shorthand and Typewriting	0	0	0	0	0	0	0	0	0	0	0	0	43	5	0	0	44	4	2	8	87	9	2	2
Spelling	168	20	2	1	117	14	0	0	94	9	0	0	2	2	0	0	0	0	0	0	381	45	2	5
Music	252	28	0	0	203	14	0	0	145	12	0	0	94	10	0	0	98	4	0	0	553	68	0	0
Domestic Science	0	2	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	50	2	0	0

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Comparative statement of the Number and Average Age of Pupils entering the Ninth Grade, High School, from the Elementary Schools of the City, September, 1912, 1911, 1910, 1909, 1908.

Elementary Schools	1912			1911			1910			1909			1908		
	No. of Pupils	Av. Age		No. of Pupils	Av. Age		No. of Pupils	Av. Age		No. of Pupils	Av. Age		No. of Pupils	Av. Age	
		Years	Months		Years	Months		Years	Months		Years	Months		Years	Months
Bass River	13	13	4	19	14	2	14	14	1	7	14	4	9	13	9
Centerville	5	13	4	4	13	4	3	13	4	5	14	5	7	12	10
Cove	13	13	5	14	13	8	15	13	4	18	14	0	10	14	2
Farms	19	14	4	21	13	10	12	13	9	15	14	1	13	14	2
Hardie				65	13	11	48	14	0	38	13	11	32	14	1
McKay	14	13	3	15	14	5	11	14	2	14	14	0	12	13	7
Prospect				22	13	7	21	14	4	29	14	8	30	13	7
Rial Side	23	13	5	16	14	1	19	13	8	8	13	11	13	13	8
South				59	13	10	42	13	8	36	14	0	17	13	7
Washington	109	13	5	24	13	11	22	14	0	17	14	0	21	13	8
Outside Pupils	19														
Totals	215	13	4	259	13	11	207	13	8	187	14	0	164	13	7

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DISTRIBUTION OF PUPILS IN THE HIGH SCHOOL BY GRADES AND COURSES OF STUDY SEPTEMBER, 1912

COURSES	Commercial		General		Scientific		Normal		Total		Total
GRADES	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
IX	64	56	0	0	53	45	0	0	117	101	218
X	42	67	0	3	46	51	0	1	88	122	210
XI	24	45	5	3	40	35	0	2	69	85	154
XII	12	34	7	7	13	29	0	1	32	71	103
XIII	12	10	7	15	10	9	0	4	29	38	67
Totals	154	212	19	28	162	169	0	8	335	417	752
	366		47		331		8				

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COMPARATIVE AGES OF PUPILS GRADUATING FROM BEVERLY HIGH SCHOOL, JUNE 1912, 1911, AND 1910

ELEMENTARY SCHOOLS	16 Years Old			17 Years Old			18 Years Old			19 Years Old			20 Years Old			21 Years Old			Average Age			Total No. of Pupils		
	1912	1911	1910	1912	1911	1910	1912	1911	1910	1912	1911	1910	1912	1911	1910	1912	1911	1910	1912	1911	1910	1912	1911	1910
Bass River	0	0	0	4	2	0	1	2	2	2	0	2	2	1	0	0	0	0	18.2	18	18.5	9	5	4
Centerville	0	0	0	0	1	0	2	0	0	1	0	0	0	0	0	0	0	0	18.3	17.5	0	3	1	0
Cove	0	0	0	1	4	0	2	0	2	3	3	1	4	1	1	0	0	0	19.0	18.1	18.7	10	8	4
Farms	0	0	0	0	0	1	1	2	2	1	3	5	1	0	3	0	0	2	19	18.6	19	3	5	13
Hardie	0	1	0	2	5	1	5	6	11	8	6	9	1	1	2	1	1	0	18.6	18.2	18.6	17	20	23
Prospect	0	0	1	2	1	1	3	1	5	4	1	6	1	1	1	0	0	0	18.3	18.5	18.5	10	4	14
Rial Side	0	0	0	0	1	1	3	0	3	0	0	2	0	0	1	0	0	0	18	17.5	18.4	3	1	7
South	0	0	0	3	4	3	4	3	5	7	4	5	1	2	1	0	0	0	18.4	18.3	18.3	15	13	14
Washington	0	0	0	0	1	1	2	4	2	3	2	4	1	0	1	0	0	1	18.8	18.1	18.8	6	7	9
Out of City	1	0	0	1	0	0	5	2	2	1	3	4	2	1	1	1	0	0	18.4	18.8	18.8	11	6	7
Totals	1	1	1	13	19	8	28	20	34	30	22	38	13	7	11	2	1	3	18.5	18.4	18.6	87	70	95

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STATISTICS OF PUPILS WHO HAVE LEFT THE BEVERLY SCHOOLS FOR THE SCHOOL YEAR 1911-1912

Number of pupils who have left the Beverly Schools during the school year ending June 30, 1912—561.

HIGH SCHOOL—158

1. The Class of 1912 numbered 87, eleven graduating from the Scientific Course, fifteen graduating from the Normal, twenty-four graduating from the Commercial, and thirty-eight from the General Course. Among the schools and colleges represented by these graduates are Boston University, 2; Dartmouth College, 1; New Hampshire State College, 1; Massachusetts Institute of Technology, 1; Army and Navy Preparatory School, 1; and the Salem Normal School, 12.

Many of the graduates have already secured positions and are doing excellent work as clerks, stenographers, and bookkeepers.

2. Left City,—9
   - Grade 9—5
     - Boys—1 (12 years)
     - Girls—4 (1 is 13; 2 are 15; 1 is 16)
   - Grade 11—3
     - Boys—0
     - Girls—3 (1 is 16; 1 is 17; 1 is 18)
   - Grade 12—1
     - Girls—1 (17 years)

3. Left to work—59
   - Grade 9—24
     - Boys—12 (5 are 14; 5 are 15; 2 are 16)
     - Girls—12 (4 are 14; 2 are 15; 3 are 16; 2 are 17; 1 is 18)
   - Grade 10—15
     - Boys—8 (1 is 14; 2 are 15; 4 are 16; 1 is 17)
     - Girls—7 (1 is 14; 3 are 15; 2 are 16; 1 is 17)
   - Grade 11—15
     - Boys—5 (2 are 15; 1 is 16; 1 is 17; 1 is 18)
     - Girls—10 (1 is 15; 3 are 16; 3 are 17; 3 are 18)
   - Grade 12—5
     - Girls—5 (1 is 16; 1 is 17; 2 are 18; 1 is 19)

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4. Lack of interest—2
   Grade 9—1
      Boys—1 (13 years)
   Grade 10—1
      Boys—1 (13 years)
5. Other Schools—1
   Grade 10—1
      Boys—1 (15 years). Industrial School

ELEMENTARY SCHOOLS—403

1. Left City—313
   Grade 1—60
      Boys—33 (14 are 5; 11 are 6; 6 are 7; 2 are 9)
      Girls—27 (8 are 5; 8 are 6; 5 are 7; 3 are 8; 1 is 9; 1 is 11)
   Grade 2—54
      Boys—30 (1 is 5; 6 are 6; 9 are 7; 9 are 8; 3 are 9; 2 are 10)
      Girls—24 (7 are 6; 6 are 7; 6 are 8; 3 are 9; 1 is 10)
   Grade 3—47
      Boys—25 (4 are 7; 6 are 8; 8 are 9; 4 are 10; 2 are 11; 1 is 12)
      Girls—22 (8 are 7; 11 are 8; 1 is 9; 2 are 10)
   Grade 4—40
      Boys—22 (1 is 7; 2 are 8; 7 are 9; 5 are 10; 4 are 11; 2 are 12; 1 is 14)
      Girls—18(1 is 7; 6 are 8; 6 are 9; 2 are 10; 3 are 11)
   Grade 5—28
      Boys—9 (4 are 9; 3 are 10; 1 is 12; 1 is 13)
      Girls—19 (3 are 9; 3 are 10; 3 are 11; 6 are 12; 4 are 13)
   Grade 6—32
      Boys—15 (2 are 10; 6 are 11; 2 are 12; 2 are 13; 2 are 14; 1 is 15)
      Girls—17 (1 is 9; 3 are 10; 3 are 11; 6 are 12; 4 are 13)

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Grade 7—23
Boys—9 (1 is 10; 1 is 11; 5 are 12; 1 is 13; 1 is 15)
Girls—14 (2 are 11; 6 are 12; 4 are 13; 2 are 14)
Grade 8—29
Boys—16 (2 are 12; 10 are 13; 3 are 14)
Girls—13 (4 are 12; 6 are 13; 2 are 14; 1 is 15)

2. Left to work—64
Grade 3—1
Boys—1 (14 years)
Grade 4—2
Boys—1 (17 years)
Girls—1 (14 years)
Grade 5—7
Boys—1 (15 years)
Girls—6 (6 are 14)
Grade 6—13
Boys—8 (7 are 14; 1 is 15)
Girls—5 (4 are 14; 1 is 15)
Grade 7—22
Boys—13 (9 are 14; 3 are 15; 1 is 16)
Girls—9 (6 are 14; 3 are 15)
Grade 8—19
Boys—16 (10 are 14; 5 are 15; 1 is 17)
Girls—3 (2 are 14; 1 is 17)

3. Poor health—11
Grade 1—4
Boys—2 (2 are 5)
Girls—2 (1 is 5; 1 is 6)
Grade 3—1
Boys—1 (10 years)
Grade 5—2
Girls—2 (1 is 11; 1 is 13)
Grade 6—2
Girls—2 (1 is 11; 1 is 14)
Grade 8—2
Girls—2 (1 is 13; 1 is 16)

4. Number who have died—10
Grade 1—2
Boys—1 (7 years)
Girls—1 (5 years)

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Grade 2—2
Boys—2 (2 are 8)
Grade 3—3
Boys—3 (2 are 7; 1 is 9)
Grade 4—1
Girls—1 (11 years)
Grade 6—1
Girls—1 (11 years)
Grade 8—1
Girls—1 (13 years)

5. Attending other schools—5
Grade 6—2
Boys—2 (2 are 14). Industrial School. St. John's Preparatory School.
Grade 7—1
Girls—1 (14 years). Private School in Salem
Grade 8—2
Boys—2 (2 are 13). Industrial School. Private School.

EVENING SCHOOLS

1911-1912

The Evening Schools were started October 30, 1911, and continued until February 8, 1912. They still maintain their standing as of great value to the City, and have been very satisfactory in the amount of highly practical work accomplished. Affording as they do, school privileges for all persons ambitious to improve their condition of life, and also for foreigners who are required by law to become proficient in the use of the English language, the Evening Schools have become a necessity to the well-being of our city.

There were eight schools taught by nine teachers, three of this number being men. The ages of the pupils attending the Evening Schools ranged from fourteen to thirty-eight, and the average age was about twenty years.

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The schools were in session 377 evenings, with an average of forty-seven evenings for each school.

	Men	Women	Total
Whole number in each school	251	67	318
Enrolment	210	55	265
Average Membership	181	50	231
Average Attendance	119	33	153

Whole number registered in each department:

	Men	Women	Total
English for Foreigners	105	22	127
Common Branches	33	2	35
Penmanship	24	14	38
Bookkeeping	14	6	20
Stenography	9	19	28
Mechanical Drawing	46	0	46

Average membership in each department:

	Men	Women	Total
Bookkeeping	9.66	5.92	15.58
Common Branches	14.27	3.03	17.30
Mechanical Drawing	34.20	0	34.20
Penmanship	14.41	5.22	19.63
Spoken English	25.12	5.21	30.33
Stenography	5.93	13.78	19.71
Totals	103.59	33.16	136.75

Average attendance in each department:

	Men	Women	Total
Common Branches	10.41	2.11	21.52
Mechanical Drawing	23.88	0	23.88
Penmanship	8.46	3.75	12.21
Spoken English	15.62	3.37	18.99
Stenography	4.50	8.9	13.40
Bookkeeping	5.1	3.77	8.87
Totals	59.51	18.15	77.66

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AGES OF PUPILS ATTENDING THE BEVERLY EVENING SCHOOL, OCTOBER, 1911

Studies	14 Years Old	15 Years Old	16 Years Old	17 Years Old	18 Years Old	19 Years Old	20 Years Old	21 Years Old	22 Years Old	23 Years Old	24 Years Old	25 Years Old	26 Years Old	27 Years Old	28 Years Old	29 Years Old	30 Years Old	31 Years Old	32 Years Old	33 Years Old	34 Years Old	35 Years Old	36 Years Old	37 Years Old	38 Years Old	Number in each Department
English for Foreigners	0	2	1	7	11	21	12	23	10	9	11	10	11	5	12	4	5	1	0	1	1	1	0	0	0	158
Penmanship	0	0	lo	st	re	co	rd																			
Bookkeeping	1	2	4	5	4	1	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Stenography	0	1	5	4	4	6	3	2	3	3	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	35
Mechanical Drawing	2	5	5	2	1	1	1	4	0	2	3	3	0	5	1	0	1	2	2	0	3	1	0	0	1	45
Common Branches	1	2	5	8	2	3	4	3	4	3	0	1	3	2	0	2	0	0	0	0	1	0	0	0	1	45
Totals	4	12	20	26	22	32	24	33	17	17	16	15	15	12	14	6	6	3	2	1	5	2	0	0	2	306

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EVENING SCHOOLS

1912-1913

The Beverly Evening Schools opened October 15, 1912, and closed January 29, 1913. There were ten schools with ten teachers beside the Principal. The ages of the pupils attending ranged from 14 to 43 years, and the average age was about 20 years.

The schools were in session 481 evenings, with an average of 48 evenings for each school.

	Men	Women	Total
Whole Number of Pupils	251	81	332
Enrolment	203	73	276
Average Membership	149.09	55.37	204.46
Average Attendance	103.59	38.62	142.21

Average membership in each department:

	Men	Women	Total
Bookkeeping	7.71	7.04	14.75
Common Branches	22.9	6.27	29.17
M. Drawing (2 evenings)	1.09	0	1.09
M. Drawing (3 evenings)	24.62	0	24.62
Penmanship	43.68	22.29	65.97
Spoken English	17.64	8.55	26.19
Algebra and Geometry	9.9	0	9.9
Stenography	3.62	16.1	19.72
Totals	131.16	60.25	191.41

Average attendance in each department:

	Men	Women	Total
Bookkeeping	4.78	5.46	10.24
Common Branches	13.82	2.78	16.60
M. Drawing (2 evenings)	.4	0	.4
M. Drawing (3 evenings)	16.01	0	16.01
Penmanship	30.75	14.21	44.96
Spoken English	12.11	5.82	17.93
Algebra and Geometry	6.6	0	6.6
Stenography	3.63	11.85	15.48
Totals	88.10	40.12	128.22

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AGES OF PUPILS ATTENDING BEVERLY EVENING SCHOOL, OCTOBER, 1912

Studies	14 Years Old	15 Years Old	16 Years Old	17 Years Old	18 Years Old	19 Years Old	20 Years Old	21 Years Old	22 Years Old	23 Years Old	24 Years Old	25 Years Old	26 Years Old	27 Years Old	28 Years Old	29 Years Old	30 Years Old	31 Years Old	32 Years Old	33 Years Old	34 Years Old	35 Years Old	36 Years Old	37 Years Old	38 Years Old	39 Years Old	40 Years Old	41 Years Old	42 Years Old	43 Years Old	Total in each Department
English for Foreigners	0	4	2	5	20	22	21	12	17	9	7	4	4	3	4	3	0	2	0	1	1	0	0	0	0	0	0	0	0	1	142
Penmanship	0	4	7	5	5	2	0	5	4	4	0	1	3	1	1	0	2	0	1	0	0	0	0	1	1	0	0	0	0	0	47
Bookkeeping	0	2	2	2	1	6	2	0	0	0	0	1	3	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	21
Stenography	2	7	3	0	1	5	2	0	1	2	3	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	31
Mechanical Drawing	2	2	3	7	5	1	4	3	0	0	1	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	32
Common Branches	0	6	6	8	9	10	7	3	7	5	2	4	3	1	2	1	2	0	1	0	0	0	0	1	1	0	1	0	0	0	80
Totals	4	25	23	27	41	46	36	23	29	20	13	13	13	6	7	4	4	3	3	1	1	2	0	2	2	0	1	0	0	1	353

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CORPORAL PUNISHMENT IN SCHOOLS FOR THE YEAR 1911–1912

Schools	Number of Teachers in School	Number Using Corporal Punishment	Number not Using Corporal Punishment
Bass River	6	2	4
Centerville	2	0	2
Cove	5	1	4
Farms	8	2	6
Hardie	16	6	10
McKay	6	0	6
Pleasant View	5	1	4
Prospect	10	2	8
Rial Side	9	6	3
South	14	1	13
Washington	15	2	13
Totals	96	23	73

Number of Punishments in Each School

Bass River	4
Centerville	0
Cove	2
Farms	3
Hardie	20
McKay	0
Pleasant View	1
Prospect	5
Rial Side	9
South	2
Washington	3
Totals in all Schools	49

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COMPARATIVE STATEMENT OF CORPORAL PUNISHMENTS, WITH NUMBER OF PUNISHMENTS IN EACH SCHOOL

	1911–12	1910–11	1909–10	1908–09	1907–08
Bass River	4	2	3	2	5
Centerville	0	0	0	0	1
Cove	2	4	2	8	13
Farms	3	5	10	2	2
Hardie	20	9	7	5	4
McKay	0	5	1	0	12
Pleasant View	1	0	0	1	13
Prospect	5	6	5	7	2
Rial Side	9	2	9	6	5
South	2	2	3	2	10
Washington	3	3	4	7	3
Totals	49	38	44	40	70

NUMBER OF DIFFERENT PUPILS PUNISHED

Number Punished	1911–12	1910–11	1909–10	1908–09	1907–08
8 times	0	0	0	0	0
5 times	0	0	0	0	0
4 times	0	0	0	0	1
3 times	0	0	0	1	1
2 times	3	2	2	5	6
1 time	43	34	40	27	51
Totals	46	36	42	33	59

Total Number of Corporal Punishments, 1911-12 49

Total Number of Pupils who received Corporal Punishments 46

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MEMBERS OF THE SCHOOL BOARD, BEVERLY, 1854-1912

Abbott, Joseph, Rev.	1854–1864	
Allen, Nathaniel P.	1895–1896	
Baker, Charles A.	1907–	
Baker, John I.	1869–1894	
Boyden, Roland W.	1891–1902	
Boyden, William C.	1873–1889	
Brooks, Samuel	1858–1860	
Choate, Frederick W.	1858–1859	
Choate, William	1888–1891	
Cole, Levi	1858–1859	
Cole, Samuel	1884–1895	1900–1901
Cole, Zachariah	1860–1868	
Cookson, Fenwick M., Rev.	1868–1869	
Danforth, Edward F.	1887–1893	
Day, Isaac F.	1873–1896	
Dodge, Joseph G.	1858–1860	
Dodge, Fred C.	1898–1906	
Dow, James B.	1902–1904	1909–
Davenport, Melvin E., Dr.	1911–	
Edwards, Ephraim A.	1873–1884	
Endicott, William	1866–1869	
Forness, Arthur A.	1908–1910	
Foster, David C.	1858–1859	
Foster, Frank A.	1900–1905	
Foster, Joseph C., Rev.	1858–1872	
Foster, Robert S.	1868–1870	
Galloupe, Augustus A.	1887–1897	
Giddings, Edward L.	1876–1897	(except 1888)
Goldthwait, George F.	1909–1910	
Griffin, Dudley N.	1886–1899	
Haddock, Charles, Dr.	1859–1862	
Haddock, Charles W., Dr.	1896–1898	
Hannaford, J. A., Dr.	1863–1864	
Hardy, Charles G.	1895–1906	
Harrington, Eli W., Rev.	1861–1867	
Hathaway, Ephraim	1867–1873	
Hill, James	1866–1867	
Hill, John F.	1893–1896	
Hinkley, William W.	1873–1876	1878–1893

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Hodgkins, Eli R.	1896–1901	
Huntoon, Benjamin	1906–	
Kilham, Annie M.	1899–1901	
Kilham, Bessie L.	1901–1907	
Kimball, John C., Rev.	1861–1865	
Knowlton, John	1860–1864	
Lanphear, Orpheus T., Rev.	1870–1873	
Larcom, Willie H.	1891–1895	
Lefavour, Issacher	1864–1867	
Loring, Augustus P.	1887–1888	
Lovett, William H.	1861–1862	
Merriman, T. M., Rev.	1866–1867	
Millett, Edward L.	1906–1910	
Morse, John T., Jr.	1886–1887	
Moulton, Augustus	1860–1861	
Moulton, Eben H.	1867–1870	1878–1887
Moulton, Leonard B.	1911–	
Nichols, John, Rev.	1861–1864	
Ober, Arthur K.	1893–1899	
Ober, Joseph E.	1867–1873	
Pierce, Benjamin O.	1861–1863	1865–1872
Porter, Samuel	1863–1864	
Pride, Edwin L.	1890–1891	
Rich, Alonzo B., Rev.	1859–1861	1864–1867
Roundy, Frederick A.	1906–1911	
Roundy, George	1868–1871	
Smith, Mary B.	1898–	
Stickney, Whitman G., Dr.	1907–1909	
Swasey, Oscar F., Dr.	1860–1886	
Thayer, Christopher T., Rev.	1858–1860	
Thorndike, S. Lothrop	1859–1861	
Thorndike, William	1860–1865	
Trowt, Charles H.	1888–1890	1904–1908
Tuck, Joseph D.	1859–1887	
Wallis, Fred H.	1900–1905	
Webber, Benjamin	1901–1905	
Webber, Edward S.	1907–1910	
Weston, Gilbert D.	1902–1906	
Wilson, Joseph	1866–1867	
Woodberry, Henry E.	1869–1875	
Woodbury, Rufus H.	1895–1899	

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FIFTY-SEVENTH ANNUAL REPORT

OF THE

TRUSTEES

OF THE

PUBLIC LIBRARY

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

JANUARY 13, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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TRUSTEES OF THE BEVERLY PUBLIC LIBRARY

Rev. Benjamin R. Bulkeley — William R. Driver

George E. Woodberry

Terms expire January 31, 1913

Charles L. Dodge — Joseph C. Kilham

Louis D. Webber

Terms expire January 31, 1914

Miss Elisabeth P. Sohier — Miss Katharine P. Loring

Allen H. Bennett

Terms expire January 31, 1915

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REPORT OF THE TRUSTEES OF THE PUBLIC LIBRARY

To the Honorable, the Mayor, and the Aldermen of the City of Beverly:

The Trustees of the Public Library submit the fifty-seventh annual report for the year ending December 31, 1912.

The appropriation for the maintenance and use of the Library was $7,650 and one-half of the dog tax, making a total of $8,019.66. The summary of the expenditures is given below, for further details of which we refer you to the report of the City Auditor.

	Appropriation		$8,019 66
For	Salaries	$3,636 87	
	Books and Periodicals	2,289 30	
	Printing and Binding	591 77	
	Rent and care of Reading Room	300 74	
	Lighting	246 97	
	Furniture and Supplies	445 61	
	Express	142 20	
	Insurance	281 50	
			$7,934 96
	Balance		$84 70

The circulation at the Central Library has been marked by a decided increase over last year in every month, the gain for the twelve months being about 3,000; while the total circulation throughout the city is 94,381. This would be an average of 4.95 per capita—an excellent showing.

The Branch libraries are in a satisfactory condition.

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At North Beverly, while the deposit of books is continued at the store opposite the Station, thus to extend the circulation of books from the Main Library, there has also been established a reading room in the Parish House on Conant Street, without cost of rent to the City. Here a Committee from the Men's and the Women's Clubs will have supervision of the enterprise, the Trustees furnishing the books, including an encyclopedia and dictionary and some magazines. We also pay for a librarian to be in attendance three periods a week.

Eight schools have collections of books which are changed twice a year; but on account of increased use of the Main Library, there has been somewhat correspondingly less resort to the limited supply at the schools, the total circulation being 6,250. 319 children have registered at the library, an increase of 47 over last year.

The total gain in new registration has been 774, as compared with 703 last year, the total being 9,000.

There have been thirteen exhibitions of the Library Art Club pictures; and it is our opinion that such a privilege at a somewhat nominal expense is abundantly worth continuing. Besides there have been various exhibits of pictures mounted by the Assistant Librarians, including a set of Turner reproductions in color. In addition there has been displayed a collection of aeroplane photographs lent by Mr. Bradbury.

Bulletins have been issued in January, June and December. These are rendered more interesting by frequent comments on the general character of the books, incorporated in the lists, and Library notes on a separate page.

Among the gifts which have been gratefully received and acknowledged (see Librarian's report) we would make special mention of the new edition of the Century Dictionary with the Atlas and Cyclopedia of Names in twelve volumes, and fourteen volumes of Notable Americans, all from Mr. R. H. Bancroft; also the History of the Boston Public Library by Horace G. Wadlin, Librarian, from the Trustees; and thirty-three Italian books from Prof. George E. Woodberry.

The administration of the Library has been greatly furthered by the allotment of working hours to the morning when there is no interruption by public use of the Library. Looking rather to the more specialized as well as enlarged work in the new building,

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one of the Assistants was sent to the Summer Library School at Simmons College.

The Trustees would gratefully acknowledge the uniform faithful and efficient service of the Librarian and the Assistants, the more so as we bear in mind the unfavorable conditions and environment—happily to be terminated in a few months.

The Reading Room in the Endicott Block suffers the evident disadvantage of awkward access, but gives us a hint of how welcome the reading room in the new Library will be.

A word of congratulation must bring our report to a close, this touching the satisfactory progress on the new Library building begun in the early summer. The handsome appearance more than fulfils the promise of the design of the architect, Cass Gilbert. The Commission in whose charge the enterprise has been placed, includes Miss Loring as representative of the Trustees; and their oversight has been assiduous and effective.

The building, which will accommodate 80,000 volumes, will be completed by the first of April; and, with a month more allowed for furnishing and the moving of books, will be open to the use of the public by June first.

Our present accumulation of books can be housed in one third of the stack room provided, while two hundred readers may be accommodated in the whole library. In the reference room and public document room and two reading rooms, there will be immediate access to 10,000 volumes.

It is pleasant also to bear in mind that the city has land enough adjacent to extend the stack rooms to double their present capacity.

Altogether we may felicitate the citizens of Beverly on the approach toward completion of a Library building for which the people have long waited and of which we shall be very justly proud.

In order to meet the required expenditures of the Library for the ensuing year, partly, of course, in the administration of a new building, we have asked the city to appropriate $8,400 beside one-half of the dog tax.

Respectfully submitted,

BENJAMIN R. BULKELEY,
For the Trustees.

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THE REPORT OF THE LIBRARIAN

To the Trustees of the Beverly Public Library:

The Librarian herewith submits the following report for the year ending December 31, 1912.

ACCESSIONS

Added by purchase		924
Added by purchase to replace old copies		292
Added by purchase for North Beverly Reading Room		17
Added by gift		192
Added by periodicals (bound)		147
Transferred to Library from Schools		3
Total gain		1,575
Withdrawn and replaced	292	
Withdrawn	97	
Lost	15	
Missing	8	
Destroyed by Board of Health	1	
Total loss		413
Net gain		1,162
In the Library December 31, 1911		29,200
In the Library December 31, 1912		30,362

SCHOOL LIBRARY

Added by purchase		149
Added by purchase to replace old copies		43
		192
Withdrawn	31	
Transferred from Schools to Library	3	
		34
Net gain		158
In the Library December 31, 1911		1,702
In the Library December 31, 1912		1,860

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FARMS BRANCH

Added by purchase	40
Added by gift	38
Added by periodicals (bound)	10
Added by purchase to replace old copies	2
	90
Withdrawn	16
Total gain	74
In the Library December 31, 1911	3,884
In the Library December 31, 1912	3,958
New names registered	76
Circulation	6,580

SUMMARY

Library use	1,297
Persons using the Reading Room, Endicott Building	2,218
Volumes rebound	462
Repaired at the Library	4,585
Covered at the Library	5,316
Volumes in Central Library	30,362
Volumes in Farms Branch	3,958
Volumes in School Library	1,860
Total number of volumes in all Libraries	36,180
Congress cards received during 1912	1,644

CIRCULATION

Central	79,811
North Beverly Deposit	1,211
Centerville Deposit	529
Schools	6,250
Farms Branch	6,580
Total number delivered	94,381

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REGISTRATION IN CENTRAL

New names registered	Men	203
	Women	252
	Juveniles	319
Total		774
Names renewed		17
Number registered since March, 1900		8,945
Special cards issued		168
Teachers' cards issued		17

CLASSIFICATION IN CENTRAL

	Volumes Purchased	Volumes Issued	Per-centage
General Works	29	61	.08
Philosophy	13	332	.41
Religion	20	299	.37
Sociology	67	1,421	1.79
Useful Arts	63	1,423	1.79
Fine Arts	61	1,411	1.78
Biography	93	977	1.22
Natural Science	22	1,198	1.50
History	43	1,638	2.05
Travel	81	1,472	1.84
Literature	96	1,411	1.78
Magazines (bound)	147	7,292	9.13
Fiction	324	*60,876	76.27
	1,059	79,811	100.00

CIRCULATION AT SCHOOLS

	Volumes Issued	Volumes Circulated
Bass River	200	812
Centerville	100	486
Hardie	250	1,071
McKay	200	490
Prospect	250	1,416
Rial Side	175	619
South	350	1,315
Washington	200	41
	1,725	6,250

*1,047 of these were taken from the Booklovers Library.

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ART EXHIBITIONS

There have been thirteen exhibits from the Library Art Club: Japan No. 1; Audubon Birds; Twenty large pictures; Unger Pictures No. 2; Old Hollandish Interiors; Aeroplanes; Ireland; Egypt No. 2; Paris Fashions; Hiawatha; California Missions; Foods from Southern Climes; Animal Picnic. A set of Turner reproductions in color has been mounted and added to our own collection. The Burgess-Aeroplane pictures were loaned by Mr. Bradbury for exhibition.

SPECIAL LISTS COMPILED

Labrador; Dickens; Estelle Hurll; William D. Howells; Municipal Government; Antarctic Regions; Aeroplanes; Going to College; Ireland; Italy; James Whitcomb Riley; John Kendrick Bangs; Travel list; Agriculture. Municipal Government lists were sent to departments and associations; lists on birds and trees were sent to all of the schools.

PERIODICALS

The Cosmopolitan has been dropped from the list of periodicals, and Index of Dates, Leslie's Weekly and American City have been added.

INTER-LIBRARY LOAN

Nine books have been borrowed through inter-library loan.

GIFTS TO THE LIBRARY, 1912

	Volumes	Pamphlets
Adams, Charles F.	1	
Adams, I. W.	1	
American Association for Labor Legislation		1
American Library Association		4
American Telephone and Telegraph Co.		2
American Woolen Co., Boston		1
Anonymous	1	24
Anti-Imperialists' League		1
Arnold Arboretum		17

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	Volumes	Pamphlets
Association of Insurance Presidents, New York		4
Bancroft, Robert H. and Ellen	24	
Beverly, City of	2	
Blair, Woodbury, Washington, D.C.	2	
Blake, Francis, Weston, Mass.	1	
Boston, City of		1
Boston Port and Seaman's Aid Society		1
Boston Tuberculosis Association		1
Brown University		8
Carnegie Endowment for International Peace		1
Carnegie Hero Fund		1
Carnegie Institution, Washington		1
Clark College		1
Colorado College		1
Connecticut, State of		2
Danvers, Massachusetts		1
Deutsch Bank, Berlin		1
Durham, N.C.		1
Fall River, Mass.		1
Gates, Frederick T.		1
Gehring, Albert	2	
Georgetown College		1
Graves, A. R.	1	
Harvard University	1	1
Huntley, Lockwood, Beverley, England		3
Illuminating Engineer Society		1
Industrial Commission, Norfolk, Va.		1
International Irrigation Congress		1
Lake Mohonk Conference		2
Lawrence, Robert M., Lawrence		1
Library of Congress	4	5
Loring, Miss Katharine P.	50	36
Lusk, William T.	1	
McCumber, Mr.		1
Massachusetts	26	24
Massachusetts Agricultural College		2

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	Volumes	Pamphlets
Massachusetts Association Opposed to Extension of Suffrage to Women	1	
Massachusetts College of Pharmacy		1
Massachusetts Library Club		5
Meek, Henry M. Pub. Co., Salem	1	
Montague, Gilbert H.		1
Morrison, Mrs. J. H., Boston		27
National Association for the Advancement of Colored People	1	
National Association of Underwriters		1
National Association of Wool Manufacturers		1
National Irrigation Congress		1
National Lumber Manufacturers Ass'n		1
New York School of Philanthropy		3
Paine, Robert Treat, Family	1	
Peabody Academy of Science, Salem	1	
Pennsylvania Prison Society		1
Philippine Islands		1
Power Boating	1	
Prudential Insurance Co.	1	
Public Libraries:		
Andover Memorial Library		1
Beverley, England		1
Boston	1	1
Brookline		5
Erie, Pennsylvania		1
Everett, Parlin		1
Lynn		7
Malden		2
Marblehead, Abbott Library		1
Medford		2
Northampton, Forbes		1
Northampton, Public		1
Ozaka, Japan		1
Passaic, N.J.		1
Peabody, Peabody Institute		3
Providence, R.I.		5

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	Volumes	Pamphlets
Quincy, Thomas Crane		1
Salem		1
Somerville		10
Springfield		13
Winchester		5
Worcester		11
Russell Sage Foundation		2
Sheldon, Henry I.	1	
Short Ballot Bulletin		4
Smith, Alice G., Beverly		1
Smithsonian	5	50
Sohier, Miss Elisabeth P.	3	
Soldier's Home, Chelsea		1
Spofford, Mrs. Harriett Prescott	1	
Staigg, Mrs., Boston	2	
Tacoma Commercial Club and Chamber of Commerce, Tacoma	1	
Texas Welfare Commission		1
Tufts College		2
United Shoe Machinery Co.		1
United States	13	236
Vedenta Centre, Boston		5
Vittum, Albert	2	
Walker, Albert H.	1	2
Washington University, Seattle		1
Wesleyan University, Ohio		2
White, Samuel P.		1
Whitman, Allan H.	1	
Williams College		1
Woodberry, George E.	35	
Woodbury, John H.		1
World Peace Foundation		7
Yale University		1
Young Men's Christian Association, New York	1	
Zimmerman, L. M.	1	

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GIFTS TO THE FARMS BRANCH

	Volumes
Barlow, Miss C. F.	1
Campbell, Miss Helen	1
Haven, Mrs. Franklin	5
Porter, Mrs. C. A.	19
Rantoul, Mrs. Neal	5
Winslow, Mrs. G. S.	7
	38

GIFTS OF PERIODICALS, AS ISSUED

Baker, Miss Bessie A., The Red Cross Bulletin; The Spirit of Missions; and The Southern Letter, Tuskegee.
Brown University; Brown Alumni Monthly.
Citizen Printing Co., The Beverly Citizen.
Cook, Thomas & Son, The Traveler's Gazette.
Herald of the Cross.
Holy Cross College, The Holy Cross Purple.
Home Market Club, The Protectionist.
Loring, Miss K. P., Work with Boys.
New England Shoe and Leather Association.
North Shore Breeze.
Our Dumb Animals.
Our Four-Footed Friends.
Playground, The
Tufts College, Tuftonian and Tufts Weekly.
Unitarian Association, The Christian Register.
Wisconsin Free Library Commission.

Respectfully submitted,

MARTHA P. SMITH,

Librarian.

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TWELFTH ANNUAL REPORT

OF THE

SEALER OF WEIGHTS AND MEASURES

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

JANUARY 13, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk*.

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CITY DOCUMENT, No. 27, 1913

REPORT OF SEALER OF WEIGHTS AND MEASURES FOR 1912

To the Honorable Mayor and City Council of the City of Beverly:

In compliance with the provisions of the City Ordinances, I herewith submit my annual report for the year ending December 31, 1912.

The following inventory will show the amount of State and City property in my custody on the above date.

The official standards, furnished by the Commonwealth and used only in adjusting the working standards employed by the Sealer, include the following:

OFFICIAL STANDARDS

One large standard balance, $150; one set steel weights, 5, 10, 20, 25 and 50 lbs., $22; one set brass weights, 1-16 oz., ⅛ oz., ¼ oz., ½ oz., 1 oz., 2 oz., 4 oz., 8 oz., 1 lb., 2 lbs., 4 lbs., $12.75; one set dry capacity metal measures, ½ bu., ¼ bu., ⅛ bu., 1-16 bu., 1-32 bu., $50; one set liquid capacity metal measures, 1 gal., ½ gal., 1 qt., ½ qt., 1 gill, $36; one steel standard yard measure, $15; one metal tripod, $8; glass slicker plates, $2; total, $295.75.

SEALER'S WORKING EQUIPMENT

The Sealer's working equipment owned by the city includes: one portable balance, in carrying case, $20.00; one set brass weights, in carrying case, 1-16 oz. to 4 lbs., $8; one set iron weights (twenty) 50 lbs. each, one 5 lbs. and one 10 lbs., $66.50; one set

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brass hanger weights, 1 lb., 2 lbs., 4 lbs., and 8 lbs., $35; one set wooden dry capacity measures 1 qt. to ½ bu., $2; one set copper liquid capacity measures, 1 gill to 1 gal., $36; one yard measure, $3; one dry measure gauge, $1.50; one glass graduate, $0.75; one seal press, with extra seal blanks, $4; one anvil, $3; one portable drill, $3; one stencil, $1.25; two hammers, $2.35; steel dies, $5.75; twist drills, punches, lead wire, rubber stamps, marking acid, lead seals, etc., $7.75; condemning tags, coal re-weighing pads, paper seals, stationery, receipt and record books, etc., $9.75; one sealing clamp, $5; total $214.60. Total value of standards and working equipment in custody of Sealer, $510.35.

SUMMARY OF YEAR'S WORK

Platform scales, capacity 5,000 lbs. and over: tested 27, sealed 23, condemned 4.

Platform scales, capacity under 5,000 lbs.: tested 143, sealed 133, adjusted 7, condemned 10.

Computing scales: tested 55, sealed 48, condemned 7.

All other scales: tested 435, sealed 356, adjusted 4, condemned 79.

Weights: tested 1,464, sealed 1,455, adjusted 66, condemned 9.

Dry measures: tested 107, sealed 101, condemned 6.

Liquid measures: tested 1,017, sealed 1,005, condemned 12.

Oil and Molasses pumps: tested 22, sealed 21, condemned 1.

Slot weighing machines: tested 33, sealed 30, condemned 3.

Milk jars: tested 979, sealed 964, condemned 15.

Linear Measures: tested 20, sealed 18, condemned 2.

Total number of articles tested, 4,302; sealed, 4,154; adjusted, 77; condemned, 148.

Total number of office tests for which no fees were collectible 1,906.

Total amount of fees for the year $209.46.

Two complaints prosecuted in Court with fines amounting to $25 imposed.

OTHER TESTS AND INSPECTIONS

During the year the usual inspections of packages and weighed-out articles in grocery and provision stores have been made, and

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have found that the merchants have been as careful as possible to live up to the letter and spirit of the weights and measures laws. I have made a large number of re-weighings of goods sold by peddlers and hawkers, inspections of milk and junk wagons. The ice dealers have also received the attention of the sealer, many re-weighings of that commodity have been made, and in justice to them I would state that I have found little cause for complaint. Many re-weighings of coal in transit to customers have also been made, inspections of strawberry boxes and ice cream measures were frequently made. The necessity of rigid inspection is greater at the present time than ever before, as the cost of living is steadily increasing and there is constant complaint of high prices, so that it is essential that the sealer devote his entire time to the department work as a means of greater protection to the public.

Sale of Butter. Special attention was given by the sealer to the sale of butter. In several stores it had been the custom to weigh in heavy wrapping paper with the butter, each piece weighing one-half ounce. The sealer ordered the use of such heavy paper stopped and light parchment paper substituted. The weighing-in of such heavy paper with the butter netted a neat sum to the dealers; and in one case enough profit was obtained from the sale of paper at butter price to pay the rent and light bill for the year.

During the year the Board of Aldermen have pursued their usual course in refusing to grant hawkers licenses to out of town peddlers; and as several complaints were prosecuted by the police department of hawkers for peddling without a license, it has relieved the local merchants of much unfair competition.

NEW LEGISLATION

During the year a law was enacted by the Legislature making it compulsory to sell all nuts, fruits and vegetables by weight instead of dry measure where a legal weight has been established. The consumer is far better protected under the new arrangement, as it prevents to a great degree fraud and deceit as practiced under the old system of dry measures. Much complaint is heard from the peddlers, but the merchants in general are satisfied with the change and have no desire to go back to the dry measures.

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PROSECUTIONS

While complaints for violation of the weights and measures laws have been less numerous than in the past, I have found it necessary to prosecute two complaints for short weight, convictions being secured in both cases.

In conclusion, I desire to extend my sincere thanks to Ex-Mayor, Frederick A. Dodge, to Daniel C. Palmer, State Commissioner of Weights and Measures, to the members of the Board of Aldermen, to William A. Lee, to Chief of Police, S. Walter Woodberry, and to City Solicitor, Alfred E. Lunt, for their advice and assistance.

Respectfully submitted,

ROBERT J. RAFFERTY,

Sealer of Weights and Measures.

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EIGHTEENTH ANNUAL REPORT

OF THE

FIRE DEPARTMENT

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

JANUARY 27, 1913.

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LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 80, 1913

REPORT OF THE CHIEF ENGINEER

OF THE

BEVERLY FIRE DEPARTMENT, 1912

To His Honor, the Mayor, and the Members of the City Council:

GENTLEMEN:—In accordance with the requirements of the Ordinance governing the Fire Department, it becomes my duty as Chief Engineer to submit to you the Annual Report of the Fire Department of the City of Beverly, for the year ending December 31, 1912.

APPARATUS

The following is the location of the different pieces of apparatus: At Central Fire Station are Chemical No. One, Engines Nos. One and Two and one two-horse Hose Wagon (14 men), one steel-framed trussed two-horse Hook and Ladder Truck (15 men), one two-horse Supply Wagon and one two-horse Hose Pung. At Hose No. One, Rantoul Street, Ward Three, is a two-horse Hose Wagon and Hose Pung (9 men). At Hose No. Two, Rantoul Street, Ward One, is Auto Combination Hose and Chemical and Hose Pung (9 men). At Hose No. Three, North Beverly, Ward Five, is a two-horse Hose Wagon and Hose Pung (10 men), and one two-horse Hook and Ladder Truck equipped and held in reserve. At Hose No. Four, Essex Street, is a one-horse Hose Wagon and Hose Pung (10 men). At West Street Station, Beverly Farms, Ward Six, are Engine No. Three, a two-horse Hose Wagon and Hose Pung (12 men), one two-horse Combination Hook and Ladder Truck and Chemical (15 men), and one two-

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horse Supply Wagon and Hose Pung. At the Chief's stable, Rantoul Street, is a one-horse Wagon. All of the above are well equipped with modern appliances, and are in good condition for service.

MEMBERSHIP

The total membership of the Department is one hundred and twenty, of which number there are one Chief and two assistants, with headquarters at the Central Fire Station; eight captains, nine lieutenants, twenty-six ladder men, fifty-three hose men, three stokers (all call men), two engine men and sixteen drivers (permanent men) and two call engine men. They are divided into three steam fire engines, two hook and ladder trucks, four hose companies and one chemical engine company. Two permanent drivers have been added to the Department.

HORSES

There are twenty-one horses in the Department. Eight at the Central Fire Station, seven at West Street Station, two at Hose No. One, two at Hose No. Three, one at Chief's stable and one at Hose No. Four.

HARNESSES

There are in use at the present time, eight sets of double and two sets of single harnesses and one three-horse hitch. All are in good condition.

HOSE

There is a total of 12,650 feet of hose in use in the Department; 10,000 feet is suitable for steamer use, and 2,650 feet suitable for hydrant use only. 2,500 feet is at the Central Fire Station; 3,000 feet at West Street Station; Hose No. One has 1,400 feet; Hose No. Two has 1,500 feet; Hose No. Three has 1,250 feet; Hose No. Four has 1,500 feet. 1,500 feet new hose has been added the past year.

LADDERS

On trucks and hose wagons are carried 354 feet of extension ladders and 574 feet of common ladders. A 70-foot extension is stored at Hose No. Two house. In the ladder boxes at North Beverly and Centerville are stored 157 feet of common, and 38

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feet of extension ladders. On the ladder truck at North Beverly, are 195 feet of common, 83 feet roof, and 105 feet extension ladders, beside other equipments.

INCIDENTALS

There is provided at the different stations all necessary equipments of the incidental nature, the principal of which are: 95 rubber coats, 100 pairs of woolen mittens, 50 hose spanners, 15 hydrant wrenches, 50 spanner belts, four hydrant chucks, 17 hydrant valves, one life net, eight siamese connections, one Eastman pipe holder, 125 badges, 18 play pipes, 9 shut-off nozzles, 24 small extinguishers. Carried on trucks and wagons: 11 axes, 7 crowbars, 600 feet of small rubber hose, 1,000 feet of rope, 1,150 feet of chemical hose, besides many minor articles in the service.

FIRE STATIONS

All the Stations are in good condition with the exception of Hose No. One. This house is, in my opinion, entirely unfitted for the present needs of the Department. The territory covered by that company is now considered the greatest fire risk we have, and everything now depends on a more desirable location for a more up-to-date Station.

IMPROVEMENTS

Necessary improvements have been made from time to time, on the different stations.

Engine No. Four has been rebuilt and Engine No. Two has been painted. A three-horse hitch has been added at West Street Station.

A new Auto Combination Hose and Chemical has been purchased for the Department and located at Hose No. Two.

FIRE ALARM TELEGRAPH

The Department has a well-installed plant of the Gamewell Fire Alarm system, which is now in charge of Wm. H. Greenlaw. It consists of:

1 Six-Circuit Charging Board.

1 Six-Circuit Protector.

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1 Six-Circuit Repeater.
274 B.T. Couple Storage Batteries.
1 1 H.P. Motor Generator set for Charging Batteries.
2 12 in. Electro Mechanical Gongs.
1 8 in. Electro Mechanical Gong.
2 6 in. Electro Mechanical Gongs.
2 8 in. Mechanical Electro Gongs and indicator combined.
1 12 in. Electro Mechanical Gong and indicator combined.
2 Plain Indicators
24 Direct Acting Tapper Gongs.
73 Fire Alarm Boxes. Box 23 and 319 added in 1912.
5 Bell Strikers.
1 Whistle Blower.
5 Miles No. 14 Duplex Lead-covered Wire (underground).
85 Miles No. 9 B.W.W. Triple Braid Wire (Aerial).
88 Bell Alarms for Year 1912.

AUTOMATIC FIRE ALARM

Three systems of private fire alarms are installed at Central Fire Station, viz.: The American, which is connected with ten manufactories; the Watkins, with six; and the Heathing, with two. These systems, if properly cared for, will always prove their value as an aid in preventing large losses.

ATTENDANCE OF MEMBERS

The attendance at meetings and fires has been good; good-will and harmony exist between the members; a great interest is shown, thereby making it apparent that the Department is still holding its excellent standing.

RECOMMENDATIONS

In order that the Fire Department may maintain its present efficiency, and for the purpose of having it in proper condition for any emergency that may arise, I would recommend the following items, which I consider as most important at the present time.

That signal boxes be added as often as the needs of the city require.

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That a new three-way Fire Station be built in Ward Three. The present building now situated close to the new Washington School is old and out of date, and does not add to the attractiveness of the locality.

This new building will do much to relieve the present congested condition at the Central Fire Station, add to the efficiency of the Department, and, in the end, put all important pieces of apparatus in service.

That the Hose Wagon at West Street Station be painted.

That, as the appropriation for a Tractor for Engine No. Three has been made, it should be purchased as soon as possible.

That the Hose Wagon at Central Station should be thoroughly overhauled, painted, and equipped with rubber tires.

That the Central Station should be lighted by electricity, as this is now the only station not so lighted.

That a storage shed be built at rear of Hose No. Four Station to properly house the exercise wagon and pung.

SUMMARY

During the year, there have been 256 alarms for fire. Of these 88 were bell alarms, 120 telephone alarms, 20 automatic, and 28 still alarms. About 70 acres of woodland were burned; value of property involved, $515,400.00; insurance, $410,559.00; loss, $36,526.37.

In answering alarms the Department has traveled 537 miles; laid 37,350 feet of hose; used 1,930 gallons of chemical, and raised 2,410 feet of ladders.

BEVERLY FIREMAN'S RELIEF ASSOCIATION

This organization was founded March 3, 1881, for the purpose of aiding such of its members as should receive injuries or contract disease while performing their duties as firemen.

The membership at present is 251.

The income is derived from assessments, public entertainments and donations.

The sum of $1,602.51 has been expended for benefits the

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past year. A total of $18,091.05 has been expended for benefits since its organization. Total fund on hand at present, $9,611.36.

I take this opportunity to extend thanks to all who have assisted in this good work.

IN CONCLUSION

I wish to extend thanks to His Honor the Mayor, Frederick A. Dodge, and the members of the City Government, for the interest shown and the support given by them, and the Committee on Fire Department, for their co-operation in all matters for the advancement of the Department.

Also to the Assistant Engineers and all other officers and members of the Department, for their quick response at all times, the good-will shown towards me, and for their effort to sustain the good name of the Department; also to the Chief of Police and all members of that force; to the City Clerk, City Auditor and City Solicitor; to the Superintendents of Streets and Water Departments, for their willingness at all times to assist in their capacity; I tender my sincere thanks.

Respectfully submitted,

ROBERT H. GRANT,

Chief Engineer.

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FIRES AND ALARMS

Jan. 1. Telephone, 11.20 p.m. Cullivan Grocery. No damage.

Jan. 3. Still, 8.45 p.m. Electric car. No damage.

Jan. 3. Still, 9.10 p.m. Electric car. No damage.

Jan. 4. Box 17, 1.41 p.m. Mrs. Fay house. Slight damage.

Jan. 6. Box 412, 10.51 a.m. E. H. Appleton. Chimney.

Jan. 6. Telephone, 6.57 p.m. Morgan McSweeney. Chimney.

Jan. 11. Telephone, 6.50 p.m. Dr. Stickney house. Chimney.

Jan. 12. Box 8, 6.05 a.m. Mrs. Whalen house. Thawing pipes.

Jan. 14. Telephone, 4.40 p.m. Jubilee Yacht Club. Slight fire on roof. Value of building and contents, $12,000; Insurance, $7,850; loss, $125.00.

Jan. 15. Box 125, 8.09 p.m. A. J. Gadbois house. Thawing pipes. Value of building, $6,500; insurance, $6,000; Loss, $2,500. Value of contents, $750; insurance, $500; loss, $250.

Jan. 16. Telephone, 7.05 p.m. H. F. Winslow house. Chimney.

Jan. 20. Telephone, 4.20 p.m. T. D. Connolly house. Chimney.

Jan. 22. Box 45, 10.37 p.m. Mel. Towne Car. Total loss.

Jan. 25. Box 123, 3.15 p.m. Park Hotel. Rats and matches. Value of building, $6,000; insurance, $5,500; loss, $166.69. Value of contents, $2,700; insurance, $1,500; loss, $35.80.

Jan. 27. Box 127, 10.15 a.m. A. Sacco. No fire.

Jan. 27. Box 24, 10.22 p.m. Wm. Bell stable. Small fire in cellar.

Feb. 10. Telephone, 5.22 p.m. T. F. Murray house. Chimney.

Feb. 12. Telephone, 12.15 p.m. Frank Woodbury house. Chimney.

Feb. 12. Telephone, 5.20 p.m. Frank Woodbury house. Chimney.

Feb. 19. Box 134, 6.11 a.m. C. P. Twohig house. Value of building, $2,200; insurance, $1,500; loss, $20. Chimney sparks.

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Feb. 20. Box 24, 11.22 a.m. Southwick Estate. Value of building, $16,000; insurance, $12,500; loss, $75. Value of contents, $1,600; insurance, $1,200; loss, $12.00. Hot ashes.

Feb. 21. Still, 12.40 p.m. Associate building. No fire.

Feb. 22. Telephone, 7.22 p.m. Kennedy's Butter Store. Chimney.

Feb. 22. Still, 7.35 p.m. Bonfire.

Feb. 29. Telephone, 10.55 a.m. C. B. Trask house. Furnace pipe.

Mar. 2. Box 35, 10.11 a.m. B. Albert. Value of building, $2,100; insurance, $2,000; loss, $110. Sparks from chimney.

Mar. 2. Still, 10.30 a.m. B. Albert. Same fire.

Mar. 4. Telephone, 10.25 a.m. Creek Street. No fire.

Mar. 4. Telephone, 10.40 a.m. Grass.

Mar. 4. Telephone, 10.15 p.m. Grass. B.&M.R.R.

Mar. 5. Telephone, 4.50 p.m. Grass. U.S.M.Co.

Mar. 5. Telephone, 5.50 p.m. Grass. City land.

Mar. 6. Still, 11.30 a.m. Jas. Daley house. Steam escape.

Mar. 11. Still, 11 a.m. J. Cullivan house. No fire.

Mar. 13. Telephone, 9.30 p.m. F. W. Holden Estate. Fire in tree.

Mar. 15. Telephone, 5.09 p.m. B.&M.R.R. Depot Pride's. Lamp exploded.

Mar. 19. Still, 10.55 a.m. Grass. Wm. Maxey.

Mar. 20. Telephone, 3 a.m. Grass. Balch Street.

Mar. 23. Telephone, 4.20 p.m. Dump.

Mar. 24. Box 127, 2 a.m. Carmine Falcetano. Value of building, $4,400; insurance, $3,500; loss, $750; value of contents, $1,000; insurance, $500; loss, $55. Overheated furnace.

Mar. 27. Box 18, 9.55 a.m. J. B. Menke house. Value of building, $4,000; insurance, $3,500; loss, $45.90. Value of contents, $1,500; insurance, $1,000. No loss.

Mar. 27. Still, 9.40 p.m. Mechanic St. Rubbish.

Mar. 31. Telephone, 6.30 p.m. Grass.

Apr. 1. Still, 11.50 a.m. Joshua Younger. Hen coop.

Apr. 1. Box 57, 3.31 p.m. Frank Bemis. Grass fire.

Apr. 4. Telephone, 9.55 a.m. F. Wood. Grass.

Apr. 5. Box 57, 6.44 a.m. F. Haven. Fire in hedge.

Apr. 6. Still, 1.45 p.m. Solon Lovett. Grass.

Apr. 6. Automatic, 4.20 p.m. E. F. Bell. No fire.

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Apr. 6. Telephone, 8.05 p.m. Grass.
Apr. 11. Telephone, 5.55 p.m. City dump.
Apr. 13. Telephone, 2.10 p.m. A. W. Rogers. Grass.
Apr. 26. Box 413, 11.59 a.m. Gideon Foster. Woods.
Apr. 26. Telephone, 2.50 p.m. Standley. Grass.
Apr. 28. Still, 4.45 p.m. Dump.
Apr. 28. Telephone, 8.05 p.m. G. W. Bryant.
Apr. 28. Box 6, 8.09 p.m. G. W. Bryant garage. Value of building, $500; insurance, $300; loss, $100. Value of contents, $1,500; loss, $500.
May 1. Still, 1.50 p.m. Mason estate. Grass.
May 2. Telephone, 7.50 p.m. City dump.
May 4. Box 47, 11.18 a.m. Cove School. Roof. Sparks from chimney.
May 4. Automatic, 4 p.m. Beverly Box Co. Overheated boiler room.
May 5. Telephone, 8.10 a.m. Geo. Perkins. Roof. Slight fire.
May 5. Box 46, 12.37 p.m. Automobile.
May 5. Telephone, 8.20 p.m. Wenham. Grass.
May 8. Telephone, 10 a.m. Call for help to extricate man in trench.
May 14. Box 138, 6.56 a.m. J. Lomasney. Roof. Loss, $16.
May 14. Box 57, 1.52 p.m. Brush fire.
May 18. Telephone, 7.15 a.m. John F. Hill. Fire in tree.
May 18. Still, 11.20 p.m. City Dump.
May 19. Box 25, 12.08 a.m. H. F. Winslow estate. Loss, $469.66.
May 19. Box 15, 11.21 a.m. Mayo estate. Slight roof fire.
May 19. Telephone, 2.20 p.m. Roundy St. City Dump.
May 19. Telephone, 3.15 p.m. Park St. City Dump.
May 20. Telephone, 4 p.m. Andrew Ober. Dump.
May 21. Telephone, 10.56 p.m. Telephone pole.
May 23. Box 52, 7.51 p.m. Tweed estate. Shed.
May 23. 11.59 p.m. Call to Salem.
May 24. Automatic, 7.30 p.m. E. F. Bell. False.
May 28. Box 134, 3.06 p.m. B.&M.R.R. Loss $50. Defective chimney.
May 31. Automatic, 7.20 p.m. E. F. Bell. False.

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June 6. Automatic, 5.05 a.m. Millett-Woodbury. Water hammer.

June 10. Telephone, 8.50 p.m. W. O. Hobbs. Fire in cellar.

June 10. Telephone, 10.35 p.m. U.S.M. Co. Dump.

June 12. Box 8, 6.31 a.m. A. G. Tomasello. Shed.

June 13. Box 123, 2.49 a.m. Omar Lunch. Rubbish fire in rear.

June 20. Telephone, 9.15 a.m. U.S.M. Co. Woods.

June 21. Telephone, 3 p.m. A. Colson. Dump.

June 22. Box 125, 11.28 a.m. Mrs. Philpot. Value of building, $2,000; insurance, $1,500; loss, $517. Value of contents, $500; loss, $105.

June 22. Box 12, 12.14 p.m. O. P. Galleucia. Hen coop.

June 23. Telephone, 8.45 a.m. J. J. Bresnahan. Chimney.

June 23. Telephone, 6.30 p.m. Mrs. Chesley. Slight. Chimney sparks.

June 24. Box 136, 2.23 a.m. Frost Box Co. Loss, $200.

June 24. Automatic, 4.40 a.m. Woodbury Shoe Co. Water hammer.

June 24. Telephone, 4.47 a.m. City dump.

June 24. Still, 5 a.m. City dump.

June 25. Box 136, Isaac Gowski. Loss, building and contents, $250. Unknown.

June 26. Box 127, Mrs. Hayes. No fire. Smoking furnace.

June 26. Box 35, Mrs. Kransberg house and barn, Bruno Chambers and six other buildings. Total value of buildings, $28,000, insurance, $24,500; loss, $9,345.53. Loss on contents, etc., $3,088.76. Boys and matches.

June 27. Telephone, 4 a.m. Same fire rekindled.

June 27. Telephone, Mrs. Kransberg, fire in ruins.

June 28. Telephone, Mrs. Kransberg, fire in ruins.

June 28. Telephone, 3.21 p.m. Mrs. Kransberg. Ruins of barn.

June 29. Telephone, 8.50 a.m. Frost Box Co. Sawdust.

June 29. Telephone, 2.40 p.m. Foster estate. Woods.

June 29. Box 45, 3.31 p.m. Foster estate. Woods.

June 30. Telephone, 5.20 p.m. R. R. Endicott. Gas stove.

June 30. Telephone, 5.40 p.m. Foster estate. Woods.

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June 30. Telephone, 6.10 p.m. Mrs. Cabot's estate. Woods.

June 30. Telephone, 7 p.m. McKean estate. Woods.

June 30. Box 51, 7.55 p.m. McKean estate. Woods.

July 1. Automatic, 2.45 p.m. Woodbury Shoe. Water hammer.

July 1. Box 51, 1.05 p.m. Saltonstall estate. Woods.

July 1. Telephone, 2 p.m. Foster estate. Woods.

July 2. Box 35, 12.55 a.m. B. Albert. Value of building, $8,000; insurance, $7,500; loss, $210. Value of contents, $800; insurance, $700; loss, $100.

July 2. Telephone, 5.55 p.m. City dump.

July 2. Automatic, 9.07 p.m. Beverly Building Association. Gas light.

July 3. Telephone, 9 a.m. T. F. Hartigan. Fire crackers.

July 3. Telephone, 9.40 a.m. Creamery dump.

July 3. Telephone, 10.20 a.m. City dump.

July 3. Box 413, 1.16 p.m. Foster estate. Bill board.

July 3. Telephone, 5.30 p.m. A. Garland. Dump.

July 3. Telephone, 7.15 p.m. City dump.

July 3. Still, 8.15 p.m. Ryan Block. Rubbish.

July 3. Box 123, 8.47 p.m. Roof Fire. Fire crackers.

July 3. Box 311, 9.08 p.m. A. J. Davis. Unfinished house. Incendiary.

July 4. Box 12, 12.22 a.m. F. J. Crowell. Slight roof fire. Fire crackers.

July 4. Automatic, 12.27 a.m. Building Association. Water hammer.

July 4. Box 123, 2.31 a.m. Desmond Block. Paper burning in hallway.

July 4. Automatic, 3.35 a.m. Building Association. Water hammer.

July 4. Telephone, 6.12 a.m. Geo. Cressey. Dump.

July 4. Automatic, 9.20 a.m. Building Association. Water hammer.

July 4. Telephone, 10.10 a.m. City dump. Roundy St.

July 4. Telephone, 10.12 a.m. City dump. Porter St.

July 4. Box 31, 12.11 p.m. F. S. Robinson. Value of building, $3,000; insurance, $2,500; loss $203. Value of contents, $1,500; insurance, $1,000; loss, $20. Fire crackers.

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July 4. Box 35, 2.05 p.m. Geo. Perkins. Shed. Fire crackers.

July 4. Box 46, 8.24 p.m. Woodbury Fielder. Roof. Rocket.

July 4. Box 51, 9.05 p.m. Miss Loring. Woods.

July 4. Box 37, 10.21 p.m. Chief's stable. Roof. Rocket.

July 5. Telephone, 10.30 a.m. Mel. Woodbury. Duct box.

July 5. Box 413, 5.11 p.m. Foster estate. Woods.

July 5. Automatic, 8.25 p.m. Building Association. Water hammer.

July 5. Automatic, 9.24 p.m. Building Association. Water hammer.

July 6. Telephone, 7.54 p.m. Baker estate. Woods.

July 6. Telephone, 9.04 p.m. Miss Haskell. Dump.

July 7. Box 45, 5.10 p.m. Baker estate. Woods.

July 8. Telephone, 6.45 p.m. City dump.

July 9. Still, 9.10 a.m. 156 Park St. Slight fire.

July 9. Telephone, 9.30 a.m. Geo. Gosbee. Slight.

July 9. Box 27, 9.42 a.m. Mrs. Azor Dodge. Loss $16.13.

July 9. Box 45, 12.48 p.m. Baker estate. Woods.

July 9. Automatic, 9.30 p.m. Building Association. Water hammer.

July 10. Automatic, 12.55 a.m. Building Association. Water hammer.

July 10. Box 51. 1.05 p.m. Cummings & Stevens garage. Value of building, $3,000; insurance $3,000; loss, total. Value of contents, $12,000; insurance, $6,000; loss, total. Cause unknown.

July 10. Automatic, 4.20 p.m. Woodbury Shoe Co. Water hammer.

July 10. Telephone, 6.35 p.m. City dump.

July 11. Still, 10.30 a.m. H. E. Elliott. Woods.

July 12. Box 123, 3.55 p.m. D. L. Trafton Hotel. Value of building, $15,000; insurance, $11,500; loss, $490. Value of contents, $3,500; insurance, $2,000; loss, $146. Overheated stove.

July 13. Telephone, 6.20 a.m. Paine Place. False.

July 13. Telephone, 1.05 p.m. Denegre estate. Woods.

July 15. Telephone, 12.30 p.m. City dump.

July 15. Telephone, 2.48 p.m. Cummings & Stevens. Ruins.

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July 16. Box 7, 4.52 p.m. Andrew Yass. Unoccupied dwelling. Slight.

July 18. Box 127, 2.22 a.m. J. Neusner, grocery. Loss, $2.10. Unknown.

July 19. Still, 9 p.m. City dump.

July 23. Telephone, 10.10 p.m. Bill Board. Park St.

July 25. Telephone, 7.00 p.m. City dump.

July 28. Telephone, 4.30 p.m. Robert Bancroft estate. Fence.

July 30. Automatic, 8.40 p.m. E. F. Bell. No fire.

July 31. Box 18, 9.12 p.m. E. F. Sullivan. Loss, $800. Gasoline exploded.

Aug. 3. Telephone, 4.05 p.m. City dump.

Aug. 6. Telephone, 6.50 p.m. Cressy house. Slight.

Aug. 12. Box 137, 8.05 p.m. Y.M.C.T.S. Building. Value of building, $7,000; insurance; $5,459; loss, $1,205.96. Value of contents, $1,500; insurance, $1,500; loss, $1,016. Gasoline exploded.

Aug. 12. Box 52, 1.25 p.m. Tweed house. Chimney.

Aug. 14. Still, 5.10 p.m. Benedict house. Smoking stove.

Aug. 15. Box 127, 11.40 a.m. Dump.

Aug. 15. Still, 3.15 p.m. Dump.

Aug. 16. Telephone, 8.15 p.m. Electric car.

Aug. 18. Box 123, 9.52 p.m. Desmond estate. Loss on contents, $55. Dropping kerosene lamp.

Aug. 24. Telephone, 12.24 p.m. Dump.

Aug. 24. Telephone, 1.30 p.m. B.&.M. car.

Aug. 24. Telephone, 6.05 p.m. Dump.

Aug. 28. Box 134, 3.35 p.m. C. P. Twohig house. Value of building, $3,000; insurance, $1,500; loss, $375. Value of contents, $1,200; insurance, $500; loss, $285. Sparks from factory chimney.

Aug. 28. Still, 7.30 p.m. Hemingway estate. Tree.

Sept. 3. Box 127, 12.45 p.m. L. Gluckhoüse. Loss, $50. Unknown.

Sept. 5. Telephone, 1.35 p.m. Dump.

Sept. 8. Still, 2.05 p.m. Weston Block. Chimney.

Sept. 9. Telephone, 11.08 a.m. Jas. Welch garage. Gasoline exploded. Slight.

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Sept. 12. Telephone, 9.10 p.m. F. A. Crosby house. Slight fire on roof.

Sept. 14. Still, 9.05 p.m. J. C. Ayer's house. Chimney.

Sept. 14. Telephone, 10.40 p.m. Bonfire on Park St.

Sept. 15. Telephone, 4.55 p.m. A. J. Gadbois paint shop. Slight.

Sept. 16. Box 412, 10.20 a.m. Charles Burchstead house. Value of building $1,500; loss, total.

Sept. 20. Box 138. 6.40 a.m. Sprague, Breed & Brown garage. Value of building, $1,200; insurance, $800; loss, $2.10.

Sept. 21. Box 35, 5.43 p.m. Dump.

Sept. 21. Automatic, 11.20 p.m. Stuart Last Factory. No fire.

Sept. 22. Telephone, 9.40 p.m. Dump.

Sept. 23. Box 12, 9.30 a.m. B. Arth house. Loss $15.00.

Sept. 24. Box 37, 3.22 p.m. J. L. Simon. Slight fire in closet. Unknown.

Sept. 25. Telephone, 5.55 p.m. Dump.

Sept. 25. Box 14, 8.53 p.m. False alarm.

Sept. 30. Box 35, 9.25 a.m. B. Albert. Value of building, $8,000; insurance, $7,500; loss, $1,057. Value of contents, $1,600; insurance, $1,600; loss, $200.

Sept. 30. Telephone, 4.16 p.m. N. W. Rice estate. Chimney.

Oct. 1. Telephone, 8.45 p.m. Jas. Allen's estate. Slight. Fire board.

Oct. 9. Telephone, 5.05 p.m. Dump.

Oct. 9. Telephone, 5.45 p.m. City dump.

Oct. 9. Still, 5.50 p.m. City dump.

Oct. 12. Automatic, 4.30 p.m. Woodbury Shoe. Water hammer.

Oct. 16. Box 36, 10.29 a.m. A. J. Cheney house. Value of building, $3,500; insurance, $3,000; loss, $1,602.50. Value of contents, $1,000; insurance, $850; loss, $800. Lamp exploded.

Oct. 16. Automatic, 12.25 p.m. Millett-Woodbury Shoe. No fire.

Oct. 17. Box 35, 1.06 p.m. H. A. Eldridge shop. Slight.

Oct. 17. Box 31, 2.52 p.m. Mrs. Ripley. Grass.

Oct. 17. Box 12, 5.05 p.m. Woodbury house. Slight fire under steps.

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Oct. 17. Still, 5.40 p.m. City dump.

Oct. 18. Telephone, 9.32 p.m. J. F. Hill. Rubbish.

Oct. 23. Box 45, 4.43 p.m. A. J. Gallagher. Chimney.

Oct. 25. Box 123, 9.58 p.m. Wm. L. Wood garage. Gasoline exploded. Loss, $25.00.

Oct. 26. Box 9, 5.26 p.m. False alarm.

Oct. 30. Box 57, 1.15 p.m. Wm. Leahey house. Value of building, $10,000; insurance, $3,500; loss, $188. Value of contents, $1,000; no insurance, no loss. Sparks from chimney.

Oct. 30. Telephone, 3.15 p.m. Solon Lovett. Dump.

Nov. 2. Telephone 3 a.m. Cameron Car Co. Slight. Sparks from forge.

Nov. 3. Telephone, 8.10 p.m. J. C. Rogers. Power boat.

Nov. 4. Box 127, 2.22 p.m. A. Sacco Block. Value of building, $12,000; insurance, $11,000; loss, $398. Value of contents, $600; insurance, $500; loss, $450.

Nov. 6. Telephone, 1.40 p.m. Solon Lovett. Dump.

Nov. 15. Box 135, 4.54 p.m. West house. Slight. Overturned lamp.

Nov. 16. Telephone, 8.20 a.m. Ideal Bakery. Slight fire under sink.

Nov. 16. Box 127, 10.10 a.m. L. Gluckhoüse. Value, $6,000; insurance, $4,500; loss, $475. Value of contents, $600; insurance, $500; loss, $141.50. Lighted match dropped among papers.

Nov. 16. Telephone, 2.28 p.m. B. Albert. Slight fire in rear. Oily rags.

Nov. 16. Box 35, 2.33 p.m. B. Albert. Same fire.

Nov. 17. Telephone, 3.48 p.m. Frost Box Co. Escaping steam.

Nov. 19. Telephone, 3.15 p.m. Bay State R.R. Coal car.

Nov. 20. Box 138, 7.24 a.m. Sullivan estate. Slight. Children and matches.

Nov. 24. Box 123, 10.54 p.m. Park Hotel. Value of building, $8,000; insurance, $5,500; loss, $3,397. Value of contents, $3,200; insurance, $2,600; loss, $1,340. Overheated furnace.

Nov. 24. Box 23. Carmine Falcetano. Value of building, $6,000; insurance, $6,000; loss, $1,550. Value of contents, $1,200; insurance, $1,000; loss, $120.

Nov. 25. Telephone, 1.12 a.m. Ruins in cellar of above.

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Nov. 25. Telephone, 11.04 a.m. Ruins in cellar of Park Hotel.

Dec. 3. Telephone, 6.20 p.m. Mrs. Lufkin's house. Slight.

Dec. 5. Still, 4.35 p.m. Jas. McPherson. No fire.

Dec. 6. Box 127, 5.54 a.m. Starr Bros. Loss on building, $25. Value of grocery store contents, $1,000; insurance, $1,800; loss, $200. Unknown.

Dec. 8. Telephone, 12.25 p.m. Lothrop St. Slight.

Dec. 8. Telephone 10.40 p.m. Bisson St. Dump.

Dec. 12. Telephone, 7.10 a.m. Park St. Dump.

Dec. 13. Telephone, 1.25 p.m. Mrs. Lufkin. Grass.

Dec. 14. Telephone, 4 a.m. J. Dodge. Grass.

Dec. 14. Telephone, 11.35 a.m. City dump.

Dec. 14. Box 413, 3.26 p.m. G. Foster. Woods.

Dec. 15. Still, 1.45 p.m. City dump.

Dec. 17. Telephone, 10.40 a.m. R. H. Bancroft. Grass.

Dec. 23. Box 18, 10.54 a.m. I. T. Webber house. Value of building, $4,000; insurance, $3,200; loss, $140. Value of contents, $1,000; insurance, $800. No loss. Chimney sparks.

Dec. 23. Still, 5.55 p.m. City dump.

Dec. 28. Telephone, 6.20 p.m. E. A. Barry house. Chimney.

Dec. 31. Telephone, 4 a.m. Mason Building. No fire.

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FIRST ANNUAL REPORT

OF THE

CITY ELECTRICIAN

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

JANUARY 27, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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REPORT OF CITY ELECTRICIAN

To

His Honor, the Mayor, and Board of Aldermen:

I submit, herewith, my report for the year ending December 1912.

Salary	$1,200 00
Maintenance	1,389 00
Placing fire-alarm wires underground	1,961 01

Applications	986
Inspection trips	3,300
Violations outside work	131
Violations inside work	186

Applications by Months

January	70
February	75
March	68
April	120
May	102
June	87
July	98
August	81
September	79
October	58
November	79
December	69
Total	986

Meter permits issued to Beverly Gas & Electric Company 332

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Poles

Beverly Gas & Electric Co.	Chestnut	1,738
	Cedar	244
New Eng. Tel. & Tel. Co.	Chestnut	791
	Cedar	357
	Pine	20
Bay State St. Ry. Co.	Chestnut	544
	Cedar	1
	Pine	509
	Iron	35
Western Union Tel. Co.	Chestnut	1
	Cedar	11
Postal Tel. Co.	Chestnut	25
	Cedar	55
	Pine	4
	Total	4,335

APPARATUS IN CARE OF CITY ELECTRICIAN

Police Signal System

One four-circuit police desk and board equipped with one four-pen register time stamp, take up reel, telephone, and necessary apparatus for receiving signals, and carrying on communication to and from all police boxes.
Sixteen seven-call police boxes.
Eight boxes mounted on iron posts.
Eight boxes mounted on wooden posts.
Two cable terminal posts.
Thirty-five dry batteries.
Sixty-eight No. 2 Samson batteries.
Eight miles No. 14 duplex lead-covered cable installed in underground duct.
Five miles No. 12 B.W.G. three-braid, weather-proof, twisted pair wire (aerial).
280 ft. No. 14 B.&S. ten conductor aerial cable.

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Fire Alarm

One six-circuit charging board.
One six-circuit protector board.
One six-circuit repeater.
Two hundred and seventy-four B.T. couple storage batteries.
One one horse-power motor generator set for charging batteries.
Two 12 in. electro mechanical gongs.
One 8 in. electro mechanical gong.
Two 6 in. electro mechanical gongs.
Two 8 in. electro mechanical gongs and indicator combined.
One 12 in. electro mechanical gong and indicator combined.
Two plain indicators.
Twenty-four direct acting tapper gongs.
Seventy-three fire-alarm boxes.
Box 23 and Box 319 added in 1912.
Five bell strikers.
One whistle blower.
Five miles No. 14 duplex lead-covered wire (underground).
Eighty-five miles No. 9 B.W.G. triple braid wire (aerial).

WILLIAM H. GREENLAW.

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FIRST ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 3, 1913.

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LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 163, 1913

REPORT OF THE INSPECTOR OF BUILDINGS

BEVERLY, MASS., January 1, 1913.

To His Honor, the Mayor, and Board of Aldermen, City of Beverly:

GENTLEMEN: The Inspector of Buildings hereby submits the annual report of the Department for the year (10 months) ending December 31, 1912.

CITY OF BEVERLY—BUILDING DEPARTMENT

Number of permits issued and estimated cost, for the year ending December 31, 1912.

Ward	No. of Permits Issued for New Work	No. of Permits Issued for Alterations	Total No. of Permits Issued	Estimated Cost of New Work	Estimated Cost of Alterations	Total Estimated Cost
1	68	33	101	$220,875 00	$4,890 00	$225,765 00
2	15	19	34	47,700 00	5,875 00	53,575 00
3	8	20	28	13,675 00	9,200 00	22,875 00
4	40	24	64	213,265 00	15,010 00	228,275 00
5	44	15	59	160,770 00	6,075 00	166,845 00
6	18	20	38	67,730 00	50,300 00	118,030 00
Totals,	193	131	324	$724,015 00	$91,350 00	$815,365 00

Number of inspections made.....756
Number of violations.....16
Permits for gasoline tanks.....3
Permits for gasoline engines.....2

Respectfully submitted,

JOHN A. OBER,

Inspector of Buildings.

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EIGHTEENTH ANNUAL REPORT

OF THE

CHIEF OF POLICE

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 3, 1913.

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LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 164, 1913

REPORT OF CHIEF OF POLICE

BEVERLY, MASS., January 19, 1913.

To His Honor, Mayor Herman A. MacDonald, and the Board of Aldermen of the City of Beverly:

GENTLEMEN: In compliance with Section 5 of the Police Ordinance, I respectfully submit the following report of the work of the Police Department for the year ending December 31, 1912.

ARRESTS

Whole number of arrests for the year 1912		585
Males	562	
Females	23	
Total	585	
Native born	310	
Foreign born	275	
Total		585
Juveniles before the court	21	

CAUSES OF ARRESTS

Abortion	1
Adultery	4
Assault and battery	42
Assault on an officer	2

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Assault with dangerous weapon	3
Bastardy	5
Breaking and entering to commit larceny	8
Contempt of Court	20
Carrying concealed weapons	1
Concealing mortgaged property	2
Cruelty to animals	1
Disorderly conduct	7
Disturbing the peace	13
Disorderly conduct on railroad train	1
Drunkenness	234
Desertion	1
Deserters from U.S. Navy	5
Delinquents	21
Evading car fare	1
Having gambling implements in possession	1
Having explosives in possession	1
Insane	1
Illegal gaming	19
Indecent exposure	1
Keeping gambling resort	2
Larceny	21
Lewdness	2
Malicious mischief	5
Neglect of family	20
Rape	2
Trespass	5
Vagrancy	4
Violation of City Ordinances	41
Violation Weight and Measure Law	1
Violation Dog Law	1
Violation Liquor Law	39
Violation Sunday Law	1
Violation Auto Law	12
Violation Game Law	6
Violation School Law	1
Safe Keeping	16
Surrendered to Bondsman	1
For out of town officers	10
	— 585

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DISPOSITION

Appealed	21	
Continued cases	25	
Discharged by Court	7	
Fined and paid	128	
Fined and continued for payment	80	
Furnished sureties to keep the peace	2	
Held for the Superior Court	15	
Placed on file	23	
Placed on file by making restitution	18	
Probated	36	
Salem Jail	30	
State Farm	32	
Returned to State Farm	3	
State Industrial School for Girls	1	
Surrendered to Court	1	
Surrendered to officers of other cities	10	
State Board of Charities	2	
Shirley	2	
Released	135	
Foxboro	1	
Lawrence Training School	1	
Returned to U.S. Navy	5	
Committed to Danvers Asylum	5	
Women's prison at Sherborn	2	
		— 585

FINES COLLECTED

From the First District Court	$2,386.31
From Salem Jail	200.00
	$2,586.31

SUPERIOR COURT

Disposition of cases at the Superior Court:

House of Correction	21 months
State Prison	3 to 4 years
Cases nol prosed	2
Cases probated	1
Cases placed on file	1
Cases pending	14

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MISCELLANEOUS

Accidents reported	50
Broken wires reported	40
Buildings found open and secured	874
Complaints received	527
Complaints investigated	506
Cruelty to animals, cases investigated	9
Defective places in streets reported	170
Disturbances suppressed	120
Dogs killed	70
Fires discovered and alarms given	23
Fires extinguished without alarms	100
Horses found cast	38
Horses found loose	94
Intoxicated persons taken home	2
Juveniles before the Court	28
Lights furnished for dangerous places	49
Lights extinguished in buildings	216
Liquor seizures	42
Locked up for safe keeping	13
Lost children restored	42
Nuisances abated	62
Officers attendance at Court	265
Officers extra duty (number of hours)	540
Property reported stolen, value	$593.75
Property reported lost, value	$284.95
Property recovered and found, value	$617.32
Runaway horses stopped	19
Street lights reported out	1,395
Stray horses found	7
Street obstructions removed	22
Search warrants for liquor served	53
Search warrants for stolen goods served	3
Water leaks reported in streets	31
Water leaks reported in buildings	17
Sick persons assisted	6
Overheated stoves reported	1

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WAGON RUNS

Arrests	155	
Called and not needed	11	
Transporting liquor	5	
Injured persons taken to the Hospital	33	
Injured persons taken home and otherwise	6	
Sick persons taken to the Hospital	135	
Sick persons taken home and otherwise	23	
		— 368

FINANCE

Amount appropriated for salaries	$28,403.00
Transferred from salaries to maintenance	4,500.00
	$23,903.00
Amount expended for salaries	20,849.40
Balance unexpended	$3,053.60
Amount appropriated for maintenance	$5,708.00
Transferred from salaries to maintenance	4,500.00
	$10,208.00
Amount expended for maintenance	9,776.46
Balance unexpended	$431.54

RECOMMENDATIONS

I would recommend that an additional patrolman be assigned to the Cabot St. beat, so as to cover it from 6 p.m. to 8 a.m. At the present time this beat is covered from 6 to 8 p.m. by the officer from the Lothrop St. beat, leaving that beat uncovered for two hours, when he is needed (especially in the summer time) on his own beat. From 5 a.m. to 8 a.m. Cabot St. is uncovered.

I would also recommend, that the rooms now occupied by the City Engineer, and the Sealer of Weights and Measures, be fitted up for the use of the Police Department, with an entrance from Cabot St., and that the present office be fitted for the ambulance.

I would further recommend that two additional Police Boxes be added to the system—one at West Beach, Beverly Farms, and one at the North Beverly Depot.

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CONCLUSION

I desire to thank his Honor, Ex-Mayor Frederick A. Dodge, and the members of the Board of Aldermen; the Judges of the First District Court, Hon. George B. Sears, Hon. Edward C. Battis, Hon. Dennis W. Quill; the Clerk of Court, Mr. Morgan J. McSweeney, and the Assistant Clerk, Mrs. Blanche O. Safford, and to the members of the Police Department and all others who have in any way assisted me in the performance of my duty.

I also express my thanks to our local reporters, for the help I have received from them.

Respectfully yours,

S. WALTER WOODBERRY,

Chief of Police.

IN MEMORIAM

In the death of Captain Otis Burnham, which occurred on January 5th, 1912, the City lost a most faithful officer. He was an official who always took a great interest in his work, and was highly respected by the members of the department who were under his charge.

To the unfortunate he was always kind, realizing fully that they were human, and a kind word or helping hand in the time of trouble was the least a man could extend. He was found by the general public to be obliging, and would go out of his way many times to do a man a favor.

Captain Burnham was appointed a Special Officer April 21st, 1892, and was appointed Captain January 21st, 1897, which position he held at the time of his death.

Captain Burnham was a member of Post 89, G.A.R., enlisting in Co. A, 59th Massachusetts Regiment, Dec. 5th, 1863. He was transferred to the 57th Massachusetts Regiment, June 1st, 1865, in which he served until the expiration of his service, July 30th, 1865.

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SIXTEENTH ANNUAL REPORT

OF THE

BOARD OF MANAGERS

OF

PUBLIC CEMETERIES

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 3, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 165, 1913

REPORT OF BOARD OF MANAGERS OF PUBLIC CEMETERIES

BEVERLY, MASS., January 27, 1913.

To His Honor, the Mayor, and the Honorable Board of Aldermen:

GENTLEMEN:—The Board of Managers of Public Cemeteries submit the following report for the year ending December 31, 1912, with report of the Superintendent attached.

The several cemeteries under our supervision have been greatly improved during the past year. The most important improvements are herein noted.

At the Central Cemetery there have been seventeen beds of shrubs planted, which has added greatly to the appearance of the yard. There have been six hundred and fifteen feet of surface drain laid and eleven catch basins put in. A number of lots have also been graded. At North Beverly fifty-four lots have been graded and seeded down; and at Beverly Farms, twenty-three lots have also been graded and seeded.

Under the policy adopted by the Board, all lots are now graded before being sold, which will make all lots laid out in the future of a uniform grade. Twelve lots have been endowed for perpetual care, amount of said endowments being two thousand dollars ($2,000.00). A new safe has been placed in the office of the Superintendent.

The available land for burial purposes in Central Cemetery is rapidly being taken up, and the Board would again earnestly

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recommend that additional land be secured. North Beverly and Beverly Farms is well provided for, but Central Cemetery has but a limited supply, and additional land must be provided, either by a sufficient appropriation to prepare the plot of land bounded by Lothrop and Bisson Streets or purchasing land elsewhere.

Respectfully submitted,

WILLIAM GALLOUPE, *Chairman.*

GEORGE A. APPLETON, *Clerk.*

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BEVERLY, MASS., January 27, 1913.

To the Commissioners of Public Cemeteries of Beverly:

GENTLEMEN: I would submit the following report for the year ending December 31, 1912.

Number of burials, one hundred sixty-nine (169); of which thirty-two were less than ten years of age, four between ten and twenty, twenty-seven between twenty and forty, thirty between forty and sixty, fifty-seven between sixty and eighty, and nineteen over eighty.

Twenty-two lots and thirty-eight single graves have been sold at a value of two thousand one hundred and twenty-six dollars and fifty cents ($2,126.50).

Forty-three foundations, twenty-two slate, three brick and three cement vaults have been put in.

There have been received for:

Grave fees	$532.00
Removals	$39.00
Care of private and endowed lots	$1,542.97
Miscellaneous work	$911.95

This sum has been paid to the City Treasurer, and he has given receipt therefor. One thousand one hundred thirty-eight dollars and thirty-nine cents ($1,138.39) was expended on endowed lots, of which seven hundred and eighty-two dollars ($782.00) was for labor and three hundred fifty-six dollars and thirty-nine cents ($356.39) for material.

Respectfully submitted,

GEORGE A. APPLETON,

Superintendent.

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EIGHTEENTH ANNUAL REPORT

OF THE

OVERSEERS OF THE POOR

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 3, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 166, 1913

ANNUAL REPORT

OF THE

OVERSEERS OF THE POOR

For the Year Ending Dec. 31, 1912

To His Honor, the Mayor, and the Aldermen, Beverly, Mass.

GENTLEMEN:—As required by law the Overseers of the Poor herewith present their report for the year 1912. As indicated in late reports the increase in population has increased demands on this department, as well as others, and to meet them we have had to deal with increased numbers of applicants and obliged to give out more aid.

This condition had made itself felt in 1911, and we asked for and received an increase to the appropriation; making the total for 1912, $16,500, against $15,000 for the years 1910 and 1911. We have expended $16,063.74, which is $1,064.48 more than in 1911, and leaves an unexpended balance of $436.26. All of the increase has been for outside aid, and all general items but two have increased, though the principal ones have been food, medicine and shoes. The incidental account has been more than doubled—because of the purchase of a steel filing case, $120, and an exchange of typewriters, $40. Many observations relative to general conditions, used in recent reports, are equally applicable to the current year, but it is not necessary to repeat them. During

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the year we have written 127 new histories, 32 of which were for the Board of Health; against 82 in 1911, 20 of which were for the Board of Health.

This difference indicates the increase in work and expenditures during the year; and we see nothing that indicates a decrease for the coming year.

OUT-DOOR AID

The total expenditures outside of the City home have been $8,163.85, for all purposes, which is an increase, outside, of $1,317.-76 over 1911. At the beginning of the year we were aiding 96 families, 336 persons; and we close it aiding 97 families, 327 persons—one more family, but 9 less persons. During the year we have given some form of aid to 146 additional families, 383 persons; making the total for the year 242 families, 719 persons—the largest number of recent years.

Of this number 344 were adults and 375 were minors. Of the adults 144 were males and 200 females, and of the minors 197 were males and 178 females. The ages of adults ranged from 21 to 92, and 73 of the minors were over 16 and 302 under.

Of those over 16, there were 38 males and 35 females, and under 16, 159 males and 143 females.

THE CITY HOME

The year began with 33 inmates in the City Home and closed with 28, a decrease of 5; but 72 were cared for during the year—the largest number, as appears from the records, since 1861. Of the total, 47 were males and 25 females, and varied from an infant born there to 92 in February. Of these, 1 was sent to Tewksbury, 1 to Waverley, 2 out of the state, 4 to other cities or towns, 3 taken by relatives or friends, 10 died, 23 were discharged to care for themselves, and 28 remained in the home. One of these was born July 10, 1847, and has spent all of his life in the care of the overseers.

There has been a great deal of sickness, many being seriously or incurably ill when admitted. The 10 deaths is the largest number of which we find any record—and two others were removed but a few days before death. These things have made the year

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at the Home one of constant labor and care to all responsible for its proper and successful administration. The Overseers wish here to express their grateful appreciation of the excellent management and good services of Mr. and Mrs. Farnham, the superintendent and matron; also to the faithful nurses, Mrs. White and Mrs. Long, for their patient, unending devotion to the sick. We give below the record of those who have died during the year, six of whom were hopelessly sick when brought to the Home. Only two long-time inmates have died during the year.

Benjamin Wood, born in Jersey City, October 7, 1911; died January 10, 1912.

William H. B. Poland, born in Gloucester, October 20, 1830; died March 2, 1912.

John J. Murphy, born in Ireland, October 27, 1855; died March 27, 1912.

Charles Cox, born in England, May 15, 1827; died May 4, 1912.

Frances A. Landers, born in Beverly, March 31, 1843; died June 24, 1912.

Catherine Meader, born in Ireland, 1832; died July 10, 1912.

Ida M. Foss, born in Hamilton, February 12, 1877; died August 4, 1912.

George F. Butman, born in Beverly, June 1, 1856; died September 16, 1912.

Mary Bunce, born in England, January 9, 1853; died December 4, 1912.

Charles H. Grant, born in Beverly, January 9, 1844; died December 29, 1912.

The settlements of Mrs. Foss and Mrs. Bunce were in the town of Hamilton. The first paid for by the town and the latter by the King's Daughters of Hamilton.

There were reimbursements also in several other cases—from other cities and towns and for Beverly cases. The total expenditures at the house have been $7,899.89, which is $215.28 less than in 1911, and the reimbursements have been $1,301.18, $254.37 greater, but there have been no extraordinary improvements this year, against $875 last year. This leaves the net cost of maintenance $405.35 greater for the current year and is found wholly in the items of food and clothing.

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THE POLLY DAME FUND

There was $18 of the income of this fund to the credit of the Overseers the 1st of January, 1912, and $35 more have been received, increasing the amount to $53; all of which has been used. Some to provide glasses for school children and some for older people, outside, but the greater portion has been used for the inmates of the Home.

RECOMMENDATIONS

For some years we have been impressed that the real estate in our care was becoming too valuable to continue, economically, its use as at present; and recent improvements in its vicinity indicate that a more profitable use may soon be made of it.

The taking of a part of the cultivatable land for an athletic field has greatly diminished its producing power, and the proximity of a play-ground to the City Home is, as far as our experience goes, unsatisfactory. We feel it our duty to advise you of our opinions, that the matter of another location may be considered, as it will take some time to make a change—and it is unlikely that land will ever cost less.

Having given the matter some consideration we venture to make some suggestions. Almshouses, like everything else connected with social relations, have been subject to very material changes in the last ten years, and the tendency is to become, practically, hospitals for incurables, and homes for the homeless, aged and sick, who cannot care for themselves—and are not otherwise provided for.

The question naturally divides into two propositions, and involves the future policy and conduct of the poor department. Both should have careful consideration before action. One, briefly stated, might be to procure sufficient land, suitably located, collect the city's garbage and maintain a piggery, in connection with the present work—as is being done in some places. This would put the collection of garbage into the hands of the Overseers, or turn it over to them after collection. That part of it would be something of a business enterprise, call for a larger outlay to start and cost more to maintain—with some risks and possible profits.

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The other might be only to provide a suitable home for the care and maintenance of those for whom the city must provide. This would, probably, cost much less to establish, and cost less to maintain—and there would be but little or no reimbursement. A further suggestion is that a committee from the aldermen, with a like number of citizens, be chosen to consider, with the Overseers of the Poor, the future policy of the city as regards the care and maintenance of its poor. We leave this matter to such action as you may judge needful.

Respectfully submitted,

WILLIAM C. MORGAN,
FRANK A. WOODBURY,
JAMES A. WRIGHT,

January 31, 1913. *Overseers.*

FINANCIAL STATEMENT—CITY HOME

SALARIES

Walter Farnham, superintendent	$600 00	
Ada M. Farnham, matron	300 00	
		$900 00

LABOR

Mrs. J. F. White, nursing	$366 00	
Mrs. Anna Long, nursing	80 00	
Mrs. Helen Bennett, nursing	25 00	
Mrs. Mary Young, nursing	3 00	
Mr. C. A. Clark, nursing	60 00	
Miss Theresa Griffin, labor	260 00	
Mr. Levi B. Tibbetts, labor	240 00	
Mrs. Sarah H. Clark, labor	120 00	
Mr. Frank Preston, labor	340 00	
Mr. Benjamin T. Clark, labor	14 40	
Mr. Albert Crandell, labor	28 00	
Mr. Narcora Farino, labor	16 00	
		$1,552 40

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INCIDENTALS

Beverly Times, advertising	$0 50	
Salem News, advertising	1 00	
New Eng. Tel. & Tel. Co., phone	39 81	
Beverly Gas & Elec. Co., lights	220 49	
Wm. B. Cahoon, barber	79 55	
Wm. H. Burchstead, barber	4 40	
A. F. Thompson, horse hire, etc.	33 75	
Boston & Maine, transportation	1 63	
Frank L. Morse, horse hire	27 00	
Maguire & Herrick, carriage	1 00	
Union Stables, carriages for sick	14 75	
Harper's Garage, removal to Tewksbury,	14 00	
Marshall & Moulton, expressing	9 89	
Preston's Express, expressing	1 00	
American Express, expressing	35	
N. S. Heron, taking Harding to Waverley,	4 30	
Walter Farnham, cash for freight	65	
A. L. Norcross, butchering hogs	21 00	
Crowley & Lunt, directories	5 00	
B. Larcom & Co., plants	9 90	
		$489 97

REPAIRING AND FURNISHING

Friend Brothers, blacksmithing	$2 25	
C. F. Young, blacksmithing	33 05	
Wm. Croscup, repairing carts	21 75	
Edward Hickey, repairing harness	16 75	
A. C. Lunt Co., house furnishings	41 63	
Rogers & Chase, house furnishings	127 38	
Whitcomb-Carter Co., supplies	121 99	
I. F. Gould, supplies	50	
Richardson & Wright, hosp. supp.	3 75	
J. F. Pope, lumber	29 90	
Gove Lumber Co., lumber	65 90	
J. J. Harrigan, lime and sand	3 80	
J. A. Standley, cementing and wh'ng	104 40	
Dominick Gentil, cement work	9 00	

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A. L. Crosby, painting	$17 70	
J. W. Lee, 100 lamps and labor	64 15	
Greenlaw Elec. Co., repairing wires	2 78	
Pickett & Goodwin, pipe and boiler repairs	173 24	
Paul B. Patten, washer repairs	1 40	
Duren & Kendall, repairs on washer	2 75	
1900 Washer Co., extra frames	30 00	
Somerville Brush Co., mops and brushes,	24 40	
Mrs. P. Guinivan, cow	40 00	
		$938 47

MEDICINE AND BURIALS

F. E. Berry, med. and med. supplies	$2 85	
C. A. Baker, med. and med. supplies	77 84	
T. F. Delaney, med. and med. supplies	21 09	
J. H. Moore, med. and med. supplies	86 62	
Horlick's Malted Milk Co., milk	10 00	
Lee & Cressy, burial	20 00	
S. A. Gentlee, burial	10 00	
		$228 40

SHOES AND CLOTHING

Rantoul Shoe Co., shoes	$2 50	
Wm. H. Griffin, shoes	31 85	
H. C. Webber, shoes	16 95	
H. W. Billings Co., clothing	1 96	
D. N. Griffin, clothing	18 60	
Field & Kennedy, clothing	22 55	
Almy, Bigelow & Washburn, clothing	1 98	
C. L. Doble, dry goods and clothing	95 15	
J. H. Newell, dry goods and clothing	109 82	
		$301 36

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FOOD AND OTHER SUPPLIES

J. Burkhardt, grain	$98 60	
A. Dodge & Son, grain	296 68	
S. M. Hill, ice	6 75	
Beverly Ice Co., ice	108 46	
Benj. Huntoon, fresh fish	52 92	
Wm. Stopford & Co., fish	122 90	
Beverly Co-op. Ass'n, meat	993 48	
A. W. Day, curing meats	7 00	
Samuel Cole, potatoes	53 00	
Peter Clark, potatoes	42 00	
Wm. Cullivan, groceries	189 21	
Marston & Sturtevant, sugar, flour and groceries	434 06	
National Biscuit Co., crackers	20 31	
E. E. Gray Co., food supplies	148 73	
F. C. Small, food supplies	212 87	
H. P. Woodbury & Son, food supply	207 29	
Forrant's Market, food supplies	33 05	
Smith Brothers, food supplies	8 75	
Swift & Co., food supplies	42 00	
Vermont Manf. Co., food supplies	50 40	
New England Mf. Co., food supplies	37 35	
S. A. Byron, wood	49 50	
U.S. Tobacco Co., tobacco	45 80	
Miley Soap Co., soap and soap powder	122 50	
Brewer & Co., floor disinfectant	6 25	
Geo. F. Gurney & Co., disinfectant	15 65	
Geo. B. Robbins, disinfectant	10 00	
Sanitas Company, disinfectant	16 50	
W. P. Radford & Co., disinfectant	26 88	
Worrell Manf. Co., insecticide	24 00	
C. L. Howe & Co., germicide	6 40	
		$3,489 29

RECAPITULATION

Salaries	$900 00
Labor	1,552 40
Incidentals	489 97

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Repairing and Furnishing	$938 47	
Medicine and Burials	228 40	
Shoes and Clothing	301 36	
Supplies	3,489 29	
Total expended		$7,899 89
Reimbursements		$1,301 18
Cost of maintenance		$6,598 71

Whole number of inmates	72
Average number	31
Average weekly cost, per capita	$4 09

FINANCIAL STATEMENT—OUTSIDE AID

SALARIES

Norman M. MacLeod, city physician	$600 00	
James A. Wright, dept. clerk, overseers	650 00	
William C. Morgan, chairman, overseers,	50 00	
Frank A. Woodbury, overseer	50 00	
		$1,350 00

INCIDENTALS

J. F. Desmond, carriages	$1 50
Hoogerzeil Ex. Co. moving case	1 00
Boston & Maine, fares for paupers	9 89
J. F. Kilham, fares for paupers	19 25
A. Roderick, removing pauper family	4 00
H. M. Messerve & Co. stamp, ink and pad,	85
R. E. Whipple, towels and soap, office	3 05
Beverly News Co., office supplies	5 65
Citizen Printing Co., office supplies	5 75
J. L. Fairbanks, pauper register	5 00
Hobbs & Warren, blank forms and bills	5 00
F. S. Webster, carbon paper	1 00
Meek Publishing Co., directory	4 00
W. A. Batchelder, directories	3 00
New Eng. Tel. & Tel. Co., phone	24 74

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J. A. Wright, stamps and car fares.....	$27 20	
Hammond Typewriter Co., exch. and sup.	42 49	
Office Equipment Co., filing case.....	120 00	
F. G. Stanley, M.D., services.....	1 50	
P. P. Johnson, M.D., consultations.....	6 00	
		$290 87

RENTS AND ALLOWANCES

Rent and allowance to sundry persons..	$503 00	
		$503 00

BOARD AND NURSING

Board and nursing for sundry persons..	$609 00	
Beverly Hospital, board and nursing	154 70	
Boston Hospital, board and nursing....	78 58	
Lynn Hospital, board and nursing.....	1 00	
Salem Hospital, board and nursing.....	55 00	
State Hospitals, board and nursing.....	209 14	
		$1,107 42

MEDICINE AND BURIALS

C. A. Baker, medical supplies.....	$104 22	
T. F. Delaney, medical supplies	49 50	
J. H. Moore, medical supplies.....	82 55	
F. W. Varney, medical supplies.....	2 90	
Delaney & Pert, medical supplies.....	10 00	
Tarbox Drug Co., medical supplies.....	2 20	
S. A. Gentlee, burials.....	15 00	
J. F. Desmond, burials.....	65 00	
Lee & Cressy, burials.....	33 00	
		$364 37

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SHOES AND CLOTHING

Wm. H. Griffin, shoes	$165 80	
Rantoul Shoe Co., shoes	17 65	
E. Giles, shoes	2 00	
H. C. Webber, shoes	113 65	
D. N. Griffin, clothing	6 00	
Field & Kennedy, clothing	35 69	
H. W. Billings Co., clothing	29 00	
		$369 79

SUPPLIES TO FAMILIES

C. F. Miller, groceries	$2 00	
Govina Brothers, groceries	6 00	
E. N. Todd, groceries	8 00	
Geo. E. Clarke, groceries	27 93	
E. P. Spiller, groceries	79 91	
H. P. Woodbury & Son, groceries	178 00	
W. H. Buckle, groceries	143 00	
W. F. Smallie, groceries	236 67	
Beverly Public Market, groceries	325 50	
William Cullivan, groceries	429 84	
H. F. Moore, groceries	197 02	
Marston & Sturtevant, groceries	327 50	
Mary Sullivan, groceries	377 85	
Forrant's Market, groceries	522 37	
John Cullivan, groceries	334 00	
Heaphy Brothers, groceries	429 90	
A. H. Torrey, groceries	15 00	
Beverly Co-op. Asso'n, groceries	26 00	
Mary Yaas, groceries	36 00	
Antonio Sacco, groceries	61 50	
I. O. Edwards, groceries	26 00	
E. E. Gray, groceries	2 00	
H. W. Clarke, groceries	4 00	
		$3,795 99

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PAID CITIES AND TOWNS

Chelsea, care of Beverly cases	$0 20	
Salem, care of Beverly cases	320 80	
Peabody, care of Beverly cases	56 41	
Danvers, care of Beverly cases	5 00	
		$382 41

RECAPITULATION

Salaries	$1,350 00	
Incidentals	290 87	
Rent and Allowances	503 00	
Board and Nursing	1,107 42	
Medicine and Burials	364 37	
Shoes and Clothing	369 79	
Supplies to Families	3,795 99	
Paid Cities and Towns	382 41	
Total outside expenditures		$8,163 85
Reimbursements, outside		1,660 10
Net cost, outside		$6,503 75

REIMBURSEMENTS

Rec'd from the State, outside		$426 60	
Rec'd from Cities and Towns		1,233 50	
Total rec'd for outside aid		$1,660 10	
Rec'd for hay from farm	$79 45		
Rec'd for manure from farm	5 00		
Rec'd for hogs from farm	286 93		
Rec'd for board and nursing	929 80		
Total rec'd from City Home		$1,301 18	
			$2,961 28

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Total cost at City Home	$7,899 89	
Total cost outside	8,163 85	
Total cost of department		$16,063 74
Total reimbursements		2,961 28
Net cost of the department		$13,102 46
Total appropriation		$16,500 00
Total expended		16,063 74
Unexpended balance		$436 26
Whole number of inmates		72
Average number		31

Per capita cost of department to population, on a basis of 20,000, same as last year, 65 cents, an increase of five cents.

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY PHYSICIAN

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 24, 1913.

Received, read by its title, and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk*.

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CITY DOCUMENT, NO. 196, 1913

REPORT OF THE CITY PHYSICIAN

To the Mayor and the Board of Aldermen:

DEAR SIRS:—I beg leave to submit the following report of my work as City Physician for the year 1912.

Patients seen at office	231
Patients visited at home	604
Patients seen at Almshouse	436
Patients seen at Police Station	25
Commitments	6
Confinements	4
Total patients seen	1,306

On the accompanying sheet I have tabulated the patients month by month.

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1912	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Office calls.....	21	24	20	19	15	23	17	14	12	19	25	22	231
House calls.....	34	26	29	77	79	69	75	57	58	41	25	34	604
Visits to Almshouse.....	13	10	6	11	12	13	14	8	12	10	14	12	135
Patients seen at Almshouse ...	40	28	15	38	40	45	43	28	40	35	46	38	436
Police Station ..	0	2	1	3	2	2	4	3	2	2	3	1	25
Commitments ..	0	1	1	0	0	1	0	1	0	1	1	0	6
Confinements...	0	0	1	0	1	0	0	1	0	0	1	0	4

Respectfully submitted,

NORMAN M. MacLEOD, M.D.,

City Physician.

February 6, 1913.

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EIGHTEENTH ANNUAL REPORT

OF THE

PARK COMMISSIONERS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 24, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 198, 1913

REPORT OF PARK COMMISSIONERS

To His Honor, the Mayor, and the City Council of the City of Beverly:

GENTLEMEN:—As required by the Revised Laws of the State of Massachusetts of 1902, the Board of Park Commissioners of the City of Beverly have the honor to submit their annual report for the year ending December 31, 1912.

Beverly's park system proved to be a popular place during the past season, and it is estimated that thousands more than any other year visited our water front parks. A great increase was noticed from out-of-town residents, and many of them were loud in their praises of the natural beauties that abound.

The taking of the Mark A. Woodbury land for park purposeg was one of the most important events of this department durine the past year. This has been suggested for several years by thf boards of Park Commissioners. This is without a doubt one oe the prettiest places along the North Shore and commands a fine view of the harbor and the islands. There will not have to bg very much money spent in making this place an ideal breathins spot, as the surroundings and the general make-up of the land are naturally suited for park purposes. Some work will have to be done along the shore front in clearing the place of old trees and rocks. It seems that this was a wise purchase on the part of the city in securing this piece of property.

During the season the wall fronting the Oceanside Park property has been repaired and the lines of the walls straightened, to conform with the general elevation of the walks.

There is urgent need of grading the so-called Bancroft lot on the south side of the Oceanside Park. During the year this department has received several team loads of street sweepings

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from the Superintendent of Streets, and this has helped a great deal in filling in many of the rough places; but there should be some real grading done here to make the place presentable for park property.

The bath house was overtaxed at all times during the summer weather, and at times there were many people turned away, as the place was inadequate to take care of the crowds. While the bath houses were overtaxed, Supt. Wallace P. Legro did fine work in handling the crowds, and keeping them orderly and serving their needs comfortably under the circumstances. This season the bathers used the bath houses nights as well as days, and there was a great increase in the number of night bathers. This made considerable more work for the caretaker, as in previous seasons it did not require so much night work for the handling of the bathers.

INDEPENDENCE PARK

This part of the park system was just as popular as ever and was the gathering place for residents of that part of the city to enjoy the ocean breezes and the bathing beach. It has been suggested by several business men that it would be a good plan to create an interest for a public landing pier at this part of the park system. This is the handiest to deep water and would be a great factor in having yacht owners patronize our merchants for their supplies.

PLAYGROUNDS

Thinking people all over the United States have come to realize the importance of making some provision not only for the schools for the children, but also for their playgrounds. They realize that scientific study of the child's play has shown that playgrounds are one of the most powerful agents for reducing juvenile crime by giving an outlet for juvenile energy. They realize that through their meetings on the playgrounds a community spirit is developed which insures better citizenship. On the playgrounds all the children, whether rich or poor, are on the same footing, and every boy or girl must give a square deal in all their sports and games.

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There have been three playgrounds under the direction of the Park Commissioners during the past year. The Ward One Playground, Ward Three and Ward Six. There was a good attendance at these places during the ten weeks they were open, and they were greatly enjoyed by the children. These grounds were in charge of instructors, both men and women, and it was a credit to them for the good work done during the short term and was shown at the big public exhibition which was held at Oceanside Park at the close of the season, and that was highly commented on by Beverly people and the visiting instructors from other cities. The playgrounds have been a great success.

JOSEPH W. PRESTON,
WILLARD B. PUBLICOVER,
CHARLES P. TINDLEY,
Board of Park Commissioners.

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY TREASURER

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 24, 1913.

Received, read by its title and referred to the Standing Committee on Finance and Appropriations and Bonds, and the City Auditor.

LUTHER S. HERRICK, *Clerk.*

IN BOARD OF ALDERMEN

APRIL 28, 1913.

Report referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 199, 1913

REPORT OF CITY TREASURER

CITY OF BEVERLY, January 1, 1913.

To His Honor the Mayor and the Board of Aldermen:

I have the honor to submit the following report of the receipts and expenditures of the City of Beverly for the year ending December 31, 1912, and also a statement of the debts of the city.

RECEIPTS

Cash Balance, January 1, 1912		$195,090 20
Temporary Loans, Anticipation of Taxes		425,000 00
Temporary Loan, Anticipation Public Park Loan, 1912		28,000 00
Temporary Loan, Anticipation Sewer Loan, No. 1, 1912		100,000 00
Andrew S. Edwards, Collector		
Taxes, 1904	$187 97	
" 1906	357 81	
" 1907	343 68	
" 1908	602 66	
" 1909	3,460 27	
" 1910	24,379 26	
" 1911	56,006 34	
" 1912	502,233 21	
Excise Tax	3,398 32	
Sewer Assessments	7,415 47	
Street Watering Tax	1,391 32	
Moth Tax	1,333 69	
Sidewalk Tax	2,614 71	
Interest Taxes	4,614 90	
Interest Sewer Assessments:	1,320 73	
		$609,660 34

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Water Department		$72,400 00
Beverly National Bank, interest on deposits	$2,140 15	
First National Bank, Boston, interest on deposits	30 18	
Sundry firms, accrued interest, sale of notes and bonds	523 00	
		$2,693 33

State Treasurer

Corporation Tax	$98,345 24	
National Bank Tax	17,506 14	
Poor Department Account	510 80	
School Department Account	1,920 94	
Moth Account	692 75	
Military Aid	1,086 50	
State Aid	6,972 00	
Street Railway Tax	3,824 04	
Burial Indigent Soldiers	185 00	
		$131,043 41

County Treasurer

Dog Tax	$739 31	
Damage by dogs	110 00	
Land damage	600 00	
		$1,449 31
Luther S. Herrick, City Clerk, office fees		$1,354 75
Sundry persons, sale of cemetery lots		$1,551 58
Schoolhouse Site Loan, 1911	$20,000 00	
Public Library Loan, 1911	110,000 00	
Public Park Loan, 1912	28,000 00	
Highway Loan, No. 2, 1912	19,000 00	
		$177,000 00

Soldiers' Relief

City of Cambridge	$96 00	
City of Salem	59 48	
		$155 48

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Cemetery Department

George A. Appleton, Superintendent,	$1,874 53	
Sundry persons, care of lots	23 00	
Cemetery Trust Funds	1,000 00	
		$2,897 53

Poor Department

City of Boston	$121 70	
City of Gloucester	200 00	
City of Haverhill	30 00	
City of Lawrence	12 00	
City of Lynn	78 50	
City of Medford	77 70	
City of Salem	239 90	
City of Worcester	34 10	
Town of Chester	46 40	
Town of Danvers	15 60	
Town of Dedham	64 50	
Town of Greenfield	24 40	
Town of Hamilton	179 00	
Town of Ipswich	53 40	
Town of Milford	68 65	
Town of Norfolk	29 70	
Town of Peabody	118 35	
Town of Rockport	78 00	
Town of Wakefield	10 00	
Town of Wareham	12 90	
Town of Wenham	106 50	
Sundry persons, board	235 00	
Health department	80 00	
Walter Farnham, Superintendent	371 38	
Money returned	3 00	
		$2,290 68

Premiums Schoolhouse Site Loan, 1911	$376 00
Premiums Public Library Loan, 1911	2,250 60

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Premiums Park Loan, 1912	$86 80	
Premiums Highway Loan, No. 2, 1912	58 90	
Premiums Temporary Loans	20	
		$2,772 50

First District Court, fines	$2,353 47
Samuel A. Johnson, fines, Salem jail	250 00
Town of Wenham, tuition	1,797 50
Sundry persons, tuitions	325 00
Robert O. Small, Superintendent School Department	132 28
City of Boston, School Department	2 00
Sundry persons, rent of City Hall	640 00
John Derakas, license	24 00
James J. Welch, purchase of fence	15 00
Edmund Cahill, purchase of wall	15 00
Robert J. Rafferty, Sealer of Weights & Measures	121 47
George H. Thissell, Agent, milk license	69 00
Frank I. Lamasney, garbage license	100 00
City of Lynn, Health Department	192 00
City of Fitchburg, Health Department	38 00
City of New Bedford, Health Department	38 91
Town of Boxford, Health Department	33 00
Town of Hamilton, Health Department	159 85
U.S. Machinery Co., Health Department	36 70
Sale of Lamson house	498 00
Martha P. Smith, Librarian, fines	144 09
Boston & Maine Railroad, Highway Department	1,028 80
Bay State Street Railway, hose destroyed	42 50
Travelers Insurance Co., returned premium	2 66
Andrew S. Edwards, Collector, office fees	130 00
Pay roll tailings	34 76
Lovejoy Granite Co., money returned	133 84
Boston Globe, money returned	11 70
John J. Harrigan, money returned	38 45
Crowley & Lunt, money returned	30 00
	$1,761,797 09

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DISBURSEMENTS

Temporary Loans, in anticipation taxes	$365,000 00
Temporary Loan, in anticipation Park Loan, 1912	28,000 00
Temporary Loan, in anticipation, Sewer Loan, 1912,	50,000 00
Poor Department	16,063 74
School Department	148,044 47
Fire Department	36,856 35
Health Department	7,491 68
Highway Department	91,667 82
Street Lights	36,350 00
Public Property	4,199 66
Water Department	60,511 35
Military Aid	1,990 00
State Aid	6,469 00
Soldiers' Relief	7,041 75
Police Department	30,628 30
Public Library	7,934 97
Salaries	13,800 00
Incidentals	9,015 93
Election Expenses	2,408 91
Fuel	19,045 71
Sewer Department	6,289 88
Cemeteries	8,470 63
City Engineer	6,634 06
Park Department	2,711 81
City Forester	796 38
Contingent Fund	141 79
Collection of Ashes	2,537 29
Collection of Garbage	1,094 88
Extermination of Gypsy Moths	6,782 49
Sewer Maintenance	2,915 61
Surface Drainage, Bisson Street and Burton Ave.	391 20
Day Industrial School	5,178 96
Evening School	1,992 96
Interest	58,236 51
Purchase of Steam Fire Engine	5,596 75
Plans, Public Library	228 27
Burial of Indigent Soldiers	148 00
City Solicitor	1,399 49

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Sewer, Butman Street Extension	$2,475 07
Sewer, Ward Four	6,967 69
Sewer, Peabody Avenue	1,716 91
Sewer, Baker, Grant, Mill and Gage Streets	1,922 05
Sewer, Cox Court and Summit Avenue	4,664 78
Sewer, Colon Street, Dearborn and Story Avenues	1,702 46
Sewer, Whitney Avenue	692 00
City Electrician	2,589 99
Annuity, Margaret McLean	400 00
Reimbursement car fares, City Council	10 30

State Treasurer

State Tax	$55,500 00	
Corporation Tax	307 20	
National Bank Tax	2,463 29	
Repairs, State Highway	284 00	
		$58,554 49
Investigation, Water Supply		7,647 48
Investigation Shore Rights		1,908 25
Purchase of land, Schoolhouse Site, Ward 1		20,000 00
Judgment Supreme Court, Quincy A. Shaw tax		76,697 16
Telephones, Members of the Board of Aldermen		133 95
Sewer, Balch Street and Bosworth Avenue		4,921 80
Suppression of Gypsy Moths		5,000 00
Inspector of Buildings		1,114 65
Playground, Ward Six		582 32
Placing Fire Alarm Wires underground		1,960 01
Additions, West Street Fire Station		497 50
Rebuilding Fire Engine No. 3		2,274 58
Purchase of Steam Road Roller		3,800 00
Assistance office of Board of Assessors		266 67
Playground, Ward 1, Improvements		1,000 00
Construction of Public Library Building		68,573 35
Purchase of Combination Motor Wagon		5,958 67
Memorial Day		500 00
Land Damages		2,565 00
Account of Legal Services		2,929 50
Reconstruction of Herrick Street		3,311 42
Grading Queen Park		494 50
Playground, Ward 1, Maintenance		709 50

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Playground, Beverly Farms, Improvements		$1,000 00
Sewer in Sundry Streets		97,383 47
Purchase of Auto Truck, Water Department		2,496 67
Playground, Ward Three		780 41
Sinking Fund		3,000 00
Celebration, Independence Day		497 95
Cemetery Department, Improvements		731 02
Macadamizing Simon Street		2,427 66
Construction of Schoolhouse, Ward 1		11,092 00
Construction of Livingston Avenue		476 54
Reconstruction of portion of Cabot Street		12,779 16
Essex Bridge, Investigation		609 36
Police Signal System		8,448 00
Repairing Sidewalks		2,354 65
Estimate New Bath House		100 00
Suppression of Leopard Moths		500 00
New Fire Alarm Box, Pond and Mulberry Streets		75 00
Purchase Mark Woodbury Property		28,000 00
Improvements, Athletic Field		2,565 45
Construction of County Way		15,025 00
Surface Drainage, Mechanic Street		700 00
Payment 1912 Tax, Mark Woodbury Heirs		404 74
Removal of Shade Trees, Whitney Avenue		22 13
County Treasurer, County Tax		50,784 95
Purchase of Herrick and Maguire Property		5,500 00
Reconstruction Retaining Wall, Herrick Street		248 59
Incidental to Construction of Schoolhouse, Ward 1		65 03
Construction Sidewalk, Hale Street		350 00
Additional Lights, Cabot Street		1,372 55
Establishing Street Signs		235 25
Shelter and Rail, Washington Street Steps		300 00
New Fire Alarm Box, Balch and McKay Streets		75 00
Motor Police Patrol and Ambulance		20 00
Removal of Trees, Cabot Street		142 95
Maintenance of Essex Bridge		1,303 28
Maintenance of Kernwood Bridge		1,876 16
Water Loan, 1903	$2,000 00	
Water Loan, 1905	4,000 00	
Water Loan No. 1, 1910	2,000 00	
		$8,000 00

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Sewer Loan, 1893	$4,000 00	
Sewer Loan, 1900	4,000 00	
Sewer Loan, 1903	4,000 00	
Sewer Loan, 1906	7,000 00	
Sewer Loan No. 2, 1907	2,000 00	
Sewer Loan No. 3, 1907	1,000 00	
Sewer Loan No. 6, 1908	5,000 00	
Sewer Loan No. 1, 1909	3,000 00	
Sewer Loan No. 2, 1909	2,000 00	
Sewer Loan No. 1, 1910	3,000 00	
Sewer Loan No. 2, 1910	2,000 00	
Sewer Loan Ward 4, 1911	3,000 00	
Sewer Loan No. 2, 1911	3,000 00	
Sewer Loan No. 3, 1911	3,000 00	
Sewer Loan No. 4, 1911	3,000 00	
		$49,000 00
School Loan, Farms, 1902	$3,000 00	
School Loan, McKay, 1903	5,000 00	
School Loan, High, 1905	7,000 00	
School Loan, General, 1905	1,000 00	
School Loan, High, 1907	2,000 00	
School Loan, 1909	2,000 00	
School Loan, Washington, 1910	5,000 00	
Schoolhouse Site, 1911	2,000 00	
		$27,000 00
Park Loan, 1896	$2,000 00	
Public Park, 1906	1,000 00	
Ward 1 Playground Loan, 1910	1,000 00	
		$4,000 00
Dredging Loan, 1903	$3,000 00	
Dredging Loan, A, 1903	1,000 00	
		$4,000 00
Fire Loan, 1906		2,000 00
Bridge Loan, 1909		3,000 00
Public Library Loan, 1909		2,000 00
City Hall Improvement Loan, 1910		2,000 00
Police Signal System Loan, 1911		4,250 00
Street Loan, 1903	$3,000 00	
Street Loan, 1908	3,000 00	
		$6,000 00

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Public Library Building Loan, 1911	$6,000 00
Cash Balance	42,195 47
	$1,761,797 09

Cash Balance	$42,195 47
Loans authorized, reckoned in Auditor's Balances	249,000 00
	$291,195 47
Auditor's Balances, December 31, 1912	$267,078 79
Sewer Assessments, unappropriated	8,489 25
Receipts from sale of Cemetery Lots, unappropriated,	376 36
Street Railway Tax, unappropriated	3,824 04
Excise Tax, unappropriated	3,398 32
Available Cash Balance	8,028 71
	$291,195 47

TEMPORARY LOANS

In anticipation of Taxes.

1912

January 1, Balance outstanding		$40,000 00
March 22, Notes 46 to 53	$100,000 00	
April 26, Notes 54 to 66	150,000 00	
September 11, Notes 67 to 69	75,000 00	
December 16, Notes 70 to 75	100,000 00	
		$425,000 00
		$465,000 00

TEMPORARY LOANS

In anticipation of Taxes, Paid.

1912

February 1, Notes 42 to 45	$15,000 00	
April 5, Notes 40 to 41	25,000 00	
November 15, Notes 46 to 66	250,000 00	
December 12, Notes 67 to 69	75,000 00	
		$365,000 00
December 31, Balance outstanding		100,000 00
		$465,000 00

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TEMPORARY LOANS

In anticipation of Bond Issues.

1912

July 25, Beverly Park Loan, 1912, Note 1	$28,000 00
August 7, Beverly Sewer Loan, No. 1, 1912, Note 1	50,000 00
December 2, Beverly Sewer Loan, No. 1, 1912, Note 2	50,000 00
	$128,000 00

TEMPORARY LOANS

In anticipation of Bond Issues Paid.

1912

November 15, Beverly Park Loan, 1912, Note 1	$28,000 00
December 1, Beverly Sewer Loan, No. 1, 1912, Note 1	50,000 00
December 31, Balance outstanding Beverly Sewer Loan, No. 1, 1912, Note 2	50,000 00
	$128,000 00

BONDED INDEBTEDNESS

1912

January 1, Gross Debt		$1,203,950 00
Issued during the year as follows:		
Schoolhouse Site Loan, 1911	$20,000 00	
Public Library Loan, 1911	110,000 00	
Public Park Loan, 1912	28,000 00	
Street Loan (Highway Loan No. 2) 1912	19,000 00	
Sewer Loan No. 1, 1912 (Notes in anticipation of Issue)	100,000 00	
Public Park Loan, 1912 (Note in anticipation of Issue)	28,000 00	
		$305,000 00
Total Gross Debt		$1,508,950 00

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Notes and Bonds paid and cancelled during the year as follows:

Temporary Loan in anticipation of Park Loan, 1912	$28,000 00	
Temporary Loan in anticipation of Sewer Loan, No. 1, 1912	50,000 00	
Water Loans	8,000 00	
Sewer Loans	49,000 00	
School Loans	27,000 00	
Park and Playground Loans	4,000 00	
Dredging Loans	4,000 00	
Fire Loan	2,000 00	
Bridge Loan	3,000 00	
Public Library Loans	8,000 00	
City Hall Improvement Loan	2,000 00	
Police Signal Loan	4,250 00	
Street Loans	6,000 00	
		$195,250 00

December 31, Gross Debt	$1,313,700 00
Less Sinking Fund	124,063 06
Net Debt	$1,189,636 94

The following named loans are authorized and in process of issue:

Beverly Sewer Loan, No. 1, 1912, Less Note in anticipation of same to be paid from said issue	$109,000 00	
Beverly Ward 1 School Loan, 1912	95,000 00	
Beverly Ward 1 Supplementary School Loan, 1912	10,000 00	
Beverly Street Loan, Highway Loan, No. 2, 1912	35,000 00	
		$249,000 00

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DETAILED STATEMENT OF BONDED INDEBTEDNESS

General Improvement

Town of Beverly, 6 per cent., Nov. 23, 1913	$5,000 00	
Town of Beverly, 6 per cent., Nov. 23, 1918	5,000 00	
		$10,000 00

Water Loans

Beverly Water Loan, 1894, February 1, 1917, 4 per cent.	$150,000 00	
Beverly Water Loan, 1903, 4 per cent., $2,000, July 1 (1913–1919) $1,000, July 1 (1920–1924)	19,000 00	
Beverly Water Loan, 1905, 3½ per cent., $2,000, October 1 (1913–1927) $1,000 October 1, 1928		
Beverly Water Loan, 1905, 4 per cent., $2,000, October 1 (1913–1922) $1,000, October 1, 1928 $2,000, October 1 (1929–1930),	56,000 00	
		$225,000 00

Sewerage Loans

Beverly Sewerage Loan, 1893, 4 per cent., $4,000, July 1 (1913–1919)	$28,000 00	
Beverly Sewerage Loan, 1900, 4 per cent., $4,000, July 1 (1913–1925)	52,000 00	
Beverly Sewerage Loan, 1903, 4 per cent., $4,000, April 1 (1913–1924) $2,000, April 1 (1925–1934)	68,000 00	
Beverly Sewerage Loan, 1906, 4 per cent., $7,000, April 1 (1913–1931) $5,000, April 1 (1932–1936)	158,000 00	

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Beverly Sewerage Loan, No. 2, 1907, 4½ per cent., $2,000, October 1 (1913–1922)	$20,000 00	
Beverly Sewerage Loan, No. 3, 1907, 4½ per cent., $1,000, October 1, 1913.....	1,000 00	
Beverly Sewerage Loan, No. 6, 1908, 4 per cent., $5,000, Sept. 1 (1913–1918) ..	30,000 00	
Beverly Sewerage Loan, No. 1, 1909, 3½ per cent., $3,000, March 1 (1913–1914).	6,000 00	
Beverly Sewerage Loan, No. 2, 1909, 3½ per cent., $2,000, July 1, 1913.....	2,000 00	
Beverly Sewerage Loan, No. 1, 1910, 4 per cent., $3,000, June 1 (1913–1915) ..	9,000 00	
Beverly Sewerage Loan, No. 2, 1910, 4½ per cent., $2,000, June 1, 1913.....	2,000 00	
Beverly Ward 4, Sewer Loan, 1911, 4 per cent., $2,000, July 1 (1913–1922)...	20,000 00	
Beverly Sewerage Loan, No. 2, 1911, 4 per cent., $2,000, July 1 (1913–1922)...	20,000 00	
Beverly Sewerage Loan, No. 3, 1911, 4 per cent., $3,000, August 1 (1913–1916)	12,000 00	
Beverly Sewerage Loan, No. 4, 1911, 4 per cent., $3,000, Sept. 1 (1913-1914) ..	6,000 00	
Beverly Sewerage Loan, No. 1, 1912, 4 per cent., Note in anticipation of issue, March 3, 1913.....	50,000 00	
		$484,000 00

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SCHOOL LOANS

Beverly School Loan, 1902, 4 per cent.,		
$3,000, October 1 (1913–1920)		
$2,500, October 1, 1921.....	$26,500 00	
Beverly School Loan, 1903, 3½ per cent.,		
$5,000, July 1 (1913–1918)		
Beverly School Loan, 1903, 4 per cent.,		
$5,000, July 1(1913–1920)		
$3,000, July 1, 1921.....	43,000 00	
Beverly School Loan, 1905, 4 per cent.,		
$1,000, May 1 (1913–1916) ..	4,000 00	
Beverly School Loan, 1905, 4 per cent.,		
$7,000, May 1 (1913–1924)		
$6,000, May 1, 1925		
$5,000, May 1, 1926.....	95,000 00	
Beverly School Loan, 1907, 4½ per cent.,		
$2,000, May 1, (1913–1919)		
$1,000, May 1, 1920.....	15,000 00	
Beverly School Loan, 1909, 3½ per cent.,		
$2,000, May 1 (1913–1919) ..	14,000 00	
Beverly Washington Schoolhouse Loan, 1910, 4 per cent.,		
$5,000, August 1 (1913–1915)		
$4,000, August 1 (1916–1930)	75,000 00	
Beverly Schoolhouse Site Loan, 1911, 4 per cent.,		
$2,000, Dec. 1 (1913–1920) ..	18,000 00	
		$290,500 00

PARK AND PLAYGROUND LOANS

Beverly Park Loan, 1896, 4 per cent.,		
$2,000, July 1 (1913–1916)		
$2,000, July 1 (1920–1921)...	$12,000 00	

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Beverly Park Loan, 1906, 4 per cent., $1,000, July 1 (1913–1920) . . .	$8,000 00	
Beverly Ward 1 Playground Loan, 1910, 4 per cent., $1,000, July 1 (1913–1920) . . .	8,000 00	
Beverly Public Park Loan, 1912, 4 per cent., $2,000, Nov. 1 (1913–1926) . .	28,000 00	
		$56,000 00

DREDGING LOANS

Beverly Dredging Loan, 1903, 4 per cent., $3,000, Nov. 1 (1913–1916) $1,000, Nov. 1, 1917 $3,000, Nov. 1 (1918–1921) $2,000, Nov. 1, 1922	$27,000 00	
Beverly Dredging Loan A, 1903, 4 per cent., $1,000, Nov. 1 (1913–1916) . .	4,000 00	
		$31,000 00

FIRE LOAN

Beverly Fire Loan, 1906, 4 per cent., $2,000, July 1 (1913–1916)	$8,000 00

BRIDGE LOAN

Beverly Bridge Loan, 1909, 3½ per cent., $3,000, March 1 (1913–1917) $2,000, March 1, 1918	$17,000 00

PUBLIC LIBRARY LOAN

Beverly Public Library Loan, 1909, 4 per cent., $2,000, October 1 (1913–1917)	$10,000 00	

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Beverly Public Library Building Loan, 1911, 4 per cent.,		
$6,000, Dec. 1 (1913–1921)		
$5,000, Dec. 1 (1922–1931) . .	$104,000 00	
		$114,000 00

Public Building Loan

City Hall Improvement Loan, 1910, 4 per cent.,	
$2,000, March 1 (1913–1914)	$4,000 00

Police Signal Loan

Beverly Police Signal Loan, 4 per cent.,	
$4,200, Nov. 1, 1913	$4,200 00

Street Loans

Beverly Street Loan, 1903, 4 per cent.,		
$3,000, July 1 (1913–1923) . . .	$33,000 00	
Beverly Street Loan, 1908, 4 per cent.,		
$3,000, Oct. 1 (1913–1918) . . .	18,000 00	
Beverly Street Loan (Highway No. 2) 1912, 4 per cent.,		
$5,000, Dec. 1 (1913–1915)		
$4,000, Dec. 1, 1916	19,000 00	
		$70,000 00
		$1,313,700 00
Less Sinking Fund		124,063 06
Net Debt December 31, 1913		$1,189,636 94

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DEBT STATEMENT RELATIVE TO LEGAL DEBT LIMIT

1913

Jan. 1, Gross Debt		$1,313,700 00
Water Loan, 1894	$150,000 00	
Water Loan, 1903	19,000 00	
Water Loan, 1905	56,000 00	
Sewer Loan, 1893 authorized Chap. 250, Acts 1893	28,000 00	
Sewer Loan, 1900, authorized Chap. 288, Acts 1900	52,000 00	
Sewer Loan, 1903, authorized Chap. 182, Acts 1903	68,000 00	
Sewer Loan, 1906, authorized Chap. 110, Acts 1906	158,000 00	
School Loan, 1902, authorized Chap. 421, Acts 1902	26,500 00	
School Loan, 1903, authorized Chap. 263, Acts 1903	43,000 00	
School Loan, 1905, authorized Chap. 143, Acts 1905	4,000 00	
School Loan, No. 2, 1905, authorized Chap. 143, Acts 1905	95,000 00	
School Loan, 1909, authorized Chap. 143, Acts 1905	14,000 00	
Park Loan, 1896, authorized Chap. 271, Acts 1896	12,000 00	
Street Loan, 1903, authorized Chap. 263, Acts 1903	33,000 00	
Dredging Loan, 1903, authorized Chap. 341, Acts 1903	27,000 00	
Dredging Loan A, 1903, authorized Chap. 341, Acts 1903	4,000 00	
Playground Loan, 1910, authorized Chap. 27R.L	8,000 00	
		$797,500 00
Debt to be reckoned		$516,200 00
Net Valuation for the year 1910, after deductions to Dec. 31, 1912		$40,302,000 00

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Net Valuation for the year 1911, after deductions to Dec. 31, 1912	$37,717,870 00
Net Valuation for the year 1912, after deductions to Dec. 31, 1912	$39,221,140 00
Gross Valuations	$117,241,010 00
Average Valuations	$39,080,336 00
Two and one-half per cent. of same	$977,008 40
Net Indebtedness as above	516,200 00
Borrowing Capacity	$460,808 40

Respectfully submitted,

CHARLES F. LEE,

City Treasurer.

APRIL 23, 1913.

Examined and approved as correct to the best of our knowledge and belief.

WILLARD O. WYLIE,

MARTIN R. LANE,

JOHN B. GOLDSMITH,

Committee on Finance and Appropriations.

HENRY S. PARKER,

City Auditor.

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ANNUAL REPORT

OF THE

COMMISSIONERS

OF THE

SINKING FUNDS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

FEBRUARY 24, 1913.

Received, read by its title and referred to the Standing Committee on Finance and Appropriations and Bonds, and the City Auditor.

LUTHER S. HERRICK, *Clerk.*

IN BOARD OF ALDERMEN

MARCH 24, 1913.

Report referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 200, 1913

REPORT OF THE SINKING FUND COMMISSIONERS

To the Honorable, the Mayor, and the City Council:

GENTLEMEN:—The Commissioners of Sinking Funds respectfully submit the following statement as their report for the year ending December 31, 1913.

WATER LOAN SINKING FUND

Sinking Fund January 1, 1912	$116,748 51
Annual Appropriation	3,000 00
Income from Investments	4,795 84
Total	$124,544 35
Less accrued interest and premiums paid on account of securities purchased	481 29
	$124,063 06

Invested as follows:

Beverly Water Loan, 1894, 4 per cent	$57,000 00
Beverly Water Loan, 1905, 4 per cent	8,000 00
Beverly Sewer Loan, 1900, 4 per cent	7,000 00
Beverly Sewer Loan, 1903, 4 per cent	12,000 00

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Beverly Sewer Loan, No. 3, 1907, 4½ per cent.	$1,000 00
Beverly School Loan, 1902, 4 per cent	3,000 00
Beverly School Loan, 1905, 4 per cent.	4,000 00
Beverly Park Loan, 1896, 4 per cent.....	8,000 00
Beverly Public Park Loan, 1906, 4 per cent..	4,000 00
Beverly Dredging Loan, 1903, 4 per cent....	9,000 00
Beverly Fire Loan, 1906, 4 per cent.	8,000 00
Town of Winchester Water Fund Loan, 4 per cent.	1,000 00
Town of Brookline Playground Loan, 4 per cent. .	1,000 00
Town of Adams, Fire District Loan, 4 per cent. ...	1,000 00
Cash on Deposit, Beverly National Bank.....	63 06
	$124,063 06

Respectfully submitted,

JOSEPH C. KILHAM,

BENJAMIN D. WEBBER,

JOHN L. SALTONSTALL,

Commissioners of Sinking Funds.

MARCH 22, 1913.

Examined and approved as correct to the best of our knowledge and belief.

WILLARD O. WYLIE,

MARTIN R. LANE,

JOHN B. GOLDSMITH,

Committee on Finance and Appropriations.

HENRY S. PARKER, *City Auditor.*

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EIGHTEENTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 3, 1913.

Received, read by its title, and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 228, 1913

REPORT OF BOARD OF HEALTH

To His Honor, the Mayor, and Board of Aldermen, City of Beverly:

GENTLEMEN:—The Board of Health respectfully submits its annual report covering the operation of the Health Department for the year ending December 31, 1912. Also the reports of the Inspector of Plumbing, Inspector of Milk, and School Physician, which are made a part of this report.

The organization of the Board is as follows:

HENRY E. DODGE, 2d, *Chairman*

JOSEPH E. HERRICK WHITMAN G. STICKNEY, M.D.

In January, Joseph E. Herrick, was re-elected by the Board of Aldermen as a member of the Board for the term of three years.

OFFICIALS OF THE HEALTH DEPARTMENT

GEORGE H. THISSELL, Clerk and Agent.
FRED W. HERRICK, Inspector of Plumbing and Sanitary Inspector.
WHITMAN G. STICKNEY, M.D., School Physician.
HENRY E. DODGE, 2d, Inspector of Milk, Meats and Provisions.

Regular meetings of the Board have been held Saturday evenings, and special meetings called when necessary.

Office hours of the Board have been from 8.30 a.m. to 4.30 p.m. each day.

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CONTAGIOUS DISEASES

There have been fewer cases of contagious diseases reported this year than the previous year, 159 cases having been reported.

Too great care cannot be taken in immediately reporting all cases of contagious diseases, to the Board of Health.

Whole number of contagious diseases reported during the year is as follows:

Smallpox	1
Diphtheria	11
Scarlet fever	41
Typhoid fever	19
Measles	42
Tuberculosis	25
Varicella	8
Whooping-cough	6
Trachoma	1
Ophthalmia neonatorium	3
Cerebro spinal meningitis	2
	159

SMALLPOX

On May 29th a case of smallpox was reported to this Board, the first case for several years, the patient resided on Bow St., and no doubt contracted the disease in Salem. The house was immediately quarantined and guarded, inmates vaccinated, and all precaution taken to prevent any further spread of the disease.

The hospital, which had been closed for some years, was at once made ready for the reception of the patient, and he was removed there on May 31st, and was discharged as well on July 1st, hospital fumigated and closed up.

FUMIGATING

This work has in all cases been done by the Agent of the Board, formaldehyde being used.

Number of houses placarded	40
Number of rooms fumigated	256
Number of cars fumigated	11
Fumigated at the U.S.M.Co., large rooms	3

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Library and school books burned.....12
Lots of clothing burned.....4
Number of mattresses burned.....9
Milk bottles destroyed.....26

MORTALITY

Total number of deaths from all causes, exclusive of still-births.252
Number of still-births.....17

Deaths by Sexes

(Still-births excluded)

Number of deaths of males.....134
Number of deaths of females.....118

Deaths by Ages

(Still-births excluded)

	Total	Males	Females
Deaths of persons under one year.....	26	18	8
From one to two years.....	6	2	4
From two to three years.....	1	1	0
From three to four years.....	0	0	0
From four to five years.....	1	1	0
From five to ten years.....	6	3	3
From ten to fifteen years.....	2	0	2
From fifteen to twenty years.....	5	2	3
From twenty to thirty years.....	24	15	9
From thirty to forty years.....	19	5	14
From forty to fifty years.....	23	13	10
From fifty to sixty years.....	28	20	8
From sixty to seventy years.....	48	27	21
From seventy to eighty years	35	12	23
Over eighty years.....	28	15	13

Deaths By Months

(Still-births excluded)

Deaths in January.....17		Deaths in July.....24	
" " February 17		" " August.....16	
" " March.....25		" " September....24	
" " April.....29		" " October.....26	
" " May.....21		" " November 21	
" " June 15		" " December.....17	

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Causes of Death

(Still-births excluded)

Tuberculosis, pulmonary	21
Tuberculosis, other than pulmonary	9
Diphtheria and croup	1
Typhoid fever	3
Erysipelas	1
Pneumonia	15
Bronchitis	4
Diseases of the heart	63
Diseases of the brain and spinal cord	21
Diseases of the kidneys	24
Cancer	17

Deaths from Violence

From suicide	4
From accident	10
Number of deaths from all other causes not specified above (not including still-births)	59
Total	252

NUISANCES

The number of nuisances reported and investigated during the year are as follows:

Number of complaints investigated	312
Signs put up to abate nuisances	9
Dead animals removed	54
Number of premises ordered connected with the sewer	27

Nature of Nuisances in Part

Offensive privies and privy vaults	31
Foul and overflowing cesspools	42
Foul cellars and filthy premises	29

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Foul odor from manure and swine....10
Hens, cow and calf in cellars and tenements....16
Overflow of sewage....5
Fish offal....5
Foul dumps....9

Licenses Granted

To keep swine....14
For the removal of night soil....1
To collect garbage....2
To collect grease and bones....3
To take herring by means of torches....3
Manicuring....3
Permits to erect stables....10
Undertakers....7

LICENSED UNDERTAKERS

Wm. J. Carney, Samuel A. Gentlee, Curtis H. Gentlee, James McKenna, Wm. F. Carroll, Jeremiah F. Desmond, Wm. F. Lee.

RECOMMENDATIONS

There is an imperative need for the establishment of a hospital for contagious cases; that is, tuberculosis, smallpox, diphtheria, etc., and other diseases dangerous to the public health. This Board earnestly recommends that Beverly take the initiative under the provisions of Chap. 151, Acts of 1912, which provides for neighboring towns to unite in the support of a hospital for these cases. By so doing our city would be in a position to provide for its patients a much better equipped hospital, first class in every detail, and could also care for the out-of-town patients in a manner not only satisfactory to themselves, but to all concerned, owing to the fact that all could have the advantages and facilities

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of a much larger, more modern and up-to-date hospital than the several individual towns would find it necessary to build. No hospital of this character is available for our use nearer than Lynn.

The quarantine of scarlet fever or diphtheria in a house or home cannot be maintained as it should be; consequently a large majority of these cases could be taken care of in a more preventative manner in such a hospital than at the home; besides this, the other members of the family would escape the possibility of a long quarantine, and could resume their work or studies at a much earlier period than they can under the existing conditions.

The Board recommends that a site be selected for this hospital in the vicinity of the present Beverly hospital. There should be a definite plan decided upon for the future growth of the institution and the first buildings extended accordingly.

Such an institution will not necessarily be a heavy burden to the tax payer, outside the ordinary upkeep of the plant. The maintenance could be provided for under the following plan: a resident housekeeper resides in the administration building and is given her rent, light, fuel and ice, and when there are patients in the hospital the housekeeper is paid so much per capita for each week for their board. Nurses are engaged by the day or week at the regular rate of prevailing wage, regular family physicians care for the patients as in their own homes. The City Physician cares for all city cases. Under this plan there are no permanent salaries for housekeepers, nurses or physicians.

We also recommend that some action be taken in regard to the establishment of dispensary for the detection and treatment of tuberculosis; this should be located in a central part of the city, so that it will be within easy access to our workers. It is the utmost importance that we should maintain all vigilance for the quick detection and treatment of incipient tuberculosis.

We also recommend that an ordinance be created, so as to provide this Board with the services of a physician, who shall be available for emergency, contagious cases (smallpox, etc.), also fixing the rate of compensation, which would avoid any confusion or misunderstanding in the future.

We also recommend that a suitable building be provided for us on the land owned by the city in the rear of the City Stables, to be used in the transfer of garbage.

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REPORT OF THE INSPECTOR OF PLUMBING

To the Beverly Board of Health:

GENTLEMEN:—As Inspector of Plumbing I submit my report for the year 1912. The following table will show the extent and nature of the work.

Number of applications filed for which permits were granted	377
" plumbing inspections made	644
" sewer inspections made	100
" water closets put in	437
" bath tubs put in	290
" sinks put in	312
" lavatories put in	311
" wash trays put in	171
New buildings for which permits were granted	144
Old buildings for which permits were granted	233
Houses connected to cesspools	106
Houses connected with public sewer	200
Number of tenements provided by new buildings	173

Respectfully submitted,

FREDERICK W. HERRICK,

Inspector of Plumbing.

REPORT OF THE INSPECTOR OF MILK, MEATS AND PROVISIONS

To the Board of Health, City of Beverly:

GENTLEMEN:—I submit herewith, my report for the year ending December 31, 1912.

Total number of licenses granted for the sale of milk	117
Number of permits granted for the sale of oleomargarine	7

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Number of samples of milk collected and analyzed 48
Number of dairies inspected 33
Number of milk rooms inspected 21
Number of stores inspected 70
Number of restaurants inspected 28
Number of bakeries inspected 8
Amount received for licenses for the sale of milk $58 50
Amount received for permits for the sale of oleomargarine .. $3 50
Amount paid to the City Treasurer $62 00

Meats, Fruits, Vegetables, Etc., Condemned

Amount veal condemned, pounds 102
Amount of lamb and mutton, condemned, pounds 227
Strawberries condemned, quarts 41
Kale, bushels 1
Spinach, bushels 1
Green beans, baskets 1
Complaints entered for having in possession unstamped veal for purpose of sale 1

This case was placed on file in Court on payment of costs.

I have made several hundred inspections of the stores during the year. The first of the season the conditions where ice cream was handled and sold were very unsatisfactory, but after several inspections much improvement was noticed in the keeping of the cabinets and holders in which ice cream is kept.

In regard to stores, some were in a very uncleanly condition, especially the back rooms and refrigerators; of late some improvement has been noticed.

The most of the restaurants in the city are in a cleanly condition.

Our milk supply will compare favorably with that of other cities, and the most of the local dairies are kept in a cleanly condition.

On visiting some New Hampshire dairies from which part of our milk supply is obtained, I found it necessary to stop some of the milk coming to our city, because of unclean dairies.

It is to be regretted that Beverly has lost one of the best dairies in this part of the State, where 175 cows were being kept

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under the best sanitary conditions. I refer to the Cherry Hill Farm, which was located in North Beverly, and was noted for its product of certified milk.

I do not think it wise at this time for the Board of Health to take any action in regard to milk regulations, as there are many milk regulations before the Legislature to be acted on at the present time.

Respectfully submitted,

HENRY E. DODGE, 2d,

Inspector of Milk, Meat, Provisions, etc.

REPORT OF SCHOOL PHYSICIAN

To the Board of Health, City of Beverly:

GENTLEMEN:—I present you the following report as School Physician.

The medical inspection of the schools has been carried out along nearly the same lines as during 1911.

No schedule of regular visits was maintained. Voluntary visits were made to the different schools at irregular intervals. Besides these there were many visits in response to calls from the Principals. The major part of the time devoted to this work was spent in the routine examinations and inspections of the pupils. In general, the work was nearly completed in one building before going to another. By this concentration a much greater volume of work was accomplished and no time was wasted in hurried visits to a large number of schools each day.

No serious epidemic of contagious diseases has occurred. There have been about the usual number of cases of the milder diseases. During the fall chicken-pox and mumps were very prevalent. The control of these cases is very difficult. In mild cases the children are not very ill, and the parents conceal the facts, in order that the child may attend regularly. In this way the contagion is spread.

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The usual percentage of enlarged tonsils and adenoids were found. Many very bad cases exist. Some place should be devised whereby the child can be relieved when the parents through ignorance, prejudice, lack of interest or meagre funds, refuse to remedy the evil.

Many cases of head vermin, or their nits, were discovered. A strenuous campaign was waged against this pest. In one school of nearly 450 pupils 113 were found to be infected. One case of tuberculosis was found. The child was attending the school regularly, and when examined was found to have the disease in a fairly advanced stage. Special attention has been paid to the general cleanliness of the children, and an attempt has been made to stimulate pride in their personal appearance as regards cleanliness. The assistance of a school nurse is greatly needed. She should follow the work of the school physician to the home. Many children would return to school much sooner if the parents were stimulated to effective action by frequent visits of the nurse. Under the present condition evils are discovered, but in many cases not remedied. With a school nurse much more definite results could be secured.

Sufficient funds for this work should be provided, so that these many undesirable conditions could be remedied when discovered.

Summary of work done:

Visits to houses	19
Attendance at District Court	4
Visits to school	151
Telephone calls answered	176
Office visits	649
Examinations and inspections	3686

Respectfully,

WHITMAN G. STICKNEY, M.D.

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EXPENDITURES

Henry E. Dodge, 2d, salary	$50 00
Joseph E. Herrick, salary	50 00
Whitman G. Stickney, salary	50 00
George H. Thissell, salary	900 00
Fred W. Herrick, salary	1,200 00
Henry E. Dodge, 2d, salary as Inspector of Milk	350 00
Whitman G. Stickney, M.D., salary as School Physician	400 00
Henry E. Dodge, 2d, salary as Inspector of Meats, etc	225 00
North Reading Sanatorium, care of tuberculosis patients	111 43
Overseers of Poor, care of tuberculosis patients	80 00
Rutland State Sanatorium, care of tuberculosis patients	180 17
Helen M. Bennett, nurse, care of tuberculosis patients	18 00
State Board of Charity, care of tuberculosis patients	38 00
Rogers & Chase, mattress, tuberculosis case	3 50
Lynn Board of Health, care of contagious diseases	703 70
Salem Hospital, care of typhoid case	17 00
Ellen F. Lane, services as nurse, contagious disease	15 00
John J. Shea, M.D., services in contagious diseases	90 00
Maud L. Burns, services in contagious disease case	159 00
E. Blanch Foster, labor, contagious disease case	34 42
Chas. J. Frechette, labor, contagious disease case	32 00
Sarah Hanlon, nurse, contagious disease case	14 64

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Mary Sullivan, rent, contagious disease case	$9 00
Antonia Govani, groceries, etc., contagious disease case	40 66
Michael Finberg, rent, contagious disease case	21 00
Annie Philbrick, nurse, contagious disease case	79 29
Katharine Dorr, nurse, contagious disease case	222 00
Ernest Tibbetts, labor, contagious disease case	7 50
Fanny Aldrich, meals, contagious disease case	3 50
Dorothy Conrad, wages, contagious disease case	7 00
H. C. Leverton, labor, etc., contagious disease case	20 00
Alice G. Moore, wages, contagious disease case	8 00
John H. Newell, supplies, contagious disease case	38
Field & Kennedy, supplies, contagious disease case	90
Sprague, Breed & Brown, fuel, contagious disease case	1 08
Herbert W. Hanson, milk, contagious disease case	10 53
J. J. Harrigan, fuel, contagious disease case	6 40
H. F. Moore, groceries, etc., contagious disease case	61 97
Walter C. Flavin, stock and labor, contagious disease case	40 42
Joseph Ah Chung, nurse, contagious disease case	325 00
Samuel R. Dexter, stock and labor, smallpox hospital	16 25
Beverly Ice Co., ice, contagious disease case	3 00

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Laurence C. Swan, M.D., care contagious disease case	$30 00
Edmund Giles, supplies, contagious disease case	50
C. L. Doble Co., supplies, contagious disease case	23 67
Mary Sullivan, groceries, etc., contagious disease case	25 16
Mary B. Smith, rent, contagious disease case	6 67
Dirigo Creamery, milk, contagious disease case	7 18
Annie M. Tibbetts, cash paid in contagious disease case	7 11
H. L. B. Story, nurse, contagious disease case	27 00
F. A. Cowles, M.D., professional services, contagious disease case	33 00
Marston & Sturtevant, water, contagious disease case	2 00
Geo. A. Stickney, M.D., professional services, diphtheria case	24 00
H. E. Sears, M.D., professional services	18 00
W. G. Stickney, M.D., professional services, diphtheria case	30 00
A. C. Lunt, supplies, contagious disease case	67 27
P. G. Stanley, M.D., professional services, scarlet fever case	12 00
William Cullivan, groceries, etc., contagious cases	97 79
E. M. Duncan, groceries, etc., contagious cases	76 35
Heaphy Bros., groceries, etc., contagious cases	90 56
A. C. Lunt, mattresses, contagious cases	14 50
C. J. Bradstreet, milk, contagious cases	2 72
C. L. Doble Co., dry goods, contagious cases	8 65
E. L. Marshall, milk, contagious cases	1 68

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Amos Homans, care of smallpox hospital	$3 00
Eugene Marley, quarantine duty, contagious disease case	8 10
Edward F. Gidden, quarantine duty, contagious disease case	7 02
Emory B. Hooper, quarantine duty, contagious disease case	4 05
Thomas F. Delaney, medicines, etc., contagious disease cases	88 51
C. A. Baker, medicines and supplies	76 21
Delaney & Pert, medicines	93
DePree Chemical Co., disinfectants	132 00
J. A. & W. Bird Co., disinfectants	4 00
James A. Shatswell, M.D., professional services	3 00
Fred H. Beckford, cash paid for nurse	2 00
Ropes Drug Co., medicines and supplies	10 19
Patrick Corkery Co., cleaning dump	28 13
Martin Sweeney, removing nuisance	1 00
W. F. Jones, removing nuisance	1 00
Joseph Marshall, removing nuisance	1 00
R. A. Newhall, removing nuisance	2 00
Lewis C. Stone, removing nuisance	1 00
Joseph A. Ryan, removing nuisance	1 00
Fred P. Woodbury, removing nuisance	1 00
Wm. L. Pickett, removing nuisance	1 00
Connolly Bros., removing nuisance	1 00
Pickett & Goodwin, supplies	2 75
Burdett, Williams & Co., supplies	2 00
Union Telegraph Co., telegrams	77
Hammond Typewriter Co., machine, etc	58 57
Crowley & Lunt, directory	2 50
Geo. H. Flint, stationery	1 50
Wm. R. Haskell, removing nuisance	2 00
P. Blakiston, Son & Co., medical dictionary	14 00
Lee & Cressy, removing remains of bodies from Abbott St	13 00
Citizen Printing Co., printing, etc	119 57
S. M. Hill, ice	14 69

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Hurd's Laundry, towels, etc	$2 90	
Maguire & Herrick, team to Lynn	7 00	
Andrew Standley, stock and labor	8 37	
W. G. Stickney, M.D., examining children for labor certificates	149 00	
Hoogerzeil's Express, expressing and removing nuisances	142 75	
Henry E. Dodge, 2d, cash paid for expenses	37 21	
Clara L. Smith, labor, school physician	16 00	
Beverly Gas & Electric Co., supplies	50	
John K. Fielder, removing nuisance	2 00	
Bay State St. Ry. Co., tickets	14 50	
Wm. M. Stevens, use of auto	64 00	
N.E.T.&T. Co., telephone service	58 19	
Whitcomb-Carter Co., supplies	14 58	
Beverly Times, advertising	16 25	
Greenlaw Electric Co., supplies	45	
Patrick Corkery Co., cleaning cesspool	10 00	
American Express Co., expressing	3 40	
Joseph E. Lamb, M.D., analysis of milk	48 00	
Geo. H. Thissell, cash paid for expenses	11 07	
Beverly News Co., supplies	7 03	
Harry L. Standley, stenographer	6 75	
Marshall & Moulton Ex. Co., expressing	85	
Fred W. Herrick, use of auto and expenses	20 54	
Boston & Maine R.R., tickets	16 40	
Harper Garage Co., use of auto	11 00	
		$7,491 68

Recapitulation

Appropriation		$8,100 00
Expended	$7,491 68	
Unexpended balance	608 32	
		$8,100 00
Expended as follows:		
On account of salaries	$3,225 00	
On account of contagious diseases	3,337 71	
General purposes	928 97	
		$7,491 68

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Out of the amount expended for contagious diseases, **$431.10** was for the care of tuberculosis cases.

Amount to be reimbursed from the State, and cities and towns, for the care of contagious diseases, **$496.97.**

Amount received for fumigating, and disinfectants, **$47.70.**

Respectfully submitted,

HENRY E. DODGE, 2d,
JOSEPH E. HERRICK,
WHITMAN G. STICKNEY,
Board of Health.

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SECOND ANNUAL REPORT

OF THE

COMMISSIONERS

OF

TRUST FUNDS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 3, 1913.

Received, read by its title, and referred to the Standing Committee on Finance and Appropriations and Bonds, and the City Auditor.

LUTHER S. HERRICK, *Clerk.*

IN BOARD OF ALDERMEN

APRIL 28, 1913.

Report referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 229, 1913

REPORT OF THE TRUST FUND COMMISSIONERS

CITY OF BEVERLY, MASS., January 1, 1913.

To the Honorable, the Mayor, and the Members of the City Council:

GENTLEMEN:—We have the honor to submit the following as the report of the Commissioners of Trust Funds, for the year ending December 31, 1912.

RAYMOND FUND

By the will of Josiah Raymond, who died June 10, 1853, the sum of three thousand dollars was given to the inhabitants of the Town of Beverly, as a fund, the income thereof only, to be applied toward the support of the common schools, to which colored children should be admitted upon equal terms and like privileges as other children.

1912	
Jan. 1, balance from last account	$3,692 92
Income from investments	190 38
December 31, balance	$3,883 30

Invested as follows:

Beverly Park Loan, 1896, 4 per cent.	$2,000 00
Money in Beverly Savings Bank, Book 12677	1,883 30
	$3,883 30

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BAKER LIBRARY FUND

Donation of Hon. John I. Baker, to be invested under the direction of the Mayor, the fund and accumulations to be used at the discretion of the City Council for the purpose of providing a building for the Public Library.

1912

Jan. 1, balance from last account	$890 10
Income from investments	35 94
December 31, balance	$926 04

Invested as follows:

Money in Beverly Savings Bank, Book 11090	$926 04

EBENEZER RAY PUBLIC LIBRARY FUND

The Rev. Augustus Woodbury, D.D., late of Concord, N.H., a native of this city, by his last will and testament, directed his executor and trustee "to pay to the City of Beverly, Massachusetts, the remainder and residue of my estate after the above mentioned bequests have been paid, to be used as a fund to be known as the Ebenezer Ray Fund, for the benefit of the free public library in said City of Beverly, in such manner and for such purpose as the trustees of said library shall deem just."

1912

Jan. 1, balance from last account	$22,077 23
Income from investments	950 74
December 31, balance	$23,027 97

Invested as follows:

Beverly Water Loan, 1905, 4 per cent	$10,000 00
Beverly Park Loan, 1906, 4 per cent	4,000 00
Beverly Sewerage Loan, 1903, 4 per cent	7,000 00
Money in Beverly Savings Bank, Book No. 8337	2,027 97
	$23,027 97

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EDWARD BURLEY PUBLIC LIBRARY FUND

The bequest of Edward Burley, late of Beverly. The following is a copy of so much of his last will as relates to this bequest.

"To the Town of Beverly, for the use of the Public Library, I give and bequeath five hundred dollars."

1912

Jan. 1, balance from last account		$1,032 66
Income from investments		41 70
December 31, balance		$1,074 36

Invested, Beverly Savings Bank, Book 8267.

HELEN SHAW ENDICOTT FUND

The bequest of Helen Shaw Endicott, late of Boston, Mass. The following is a copy of so much of her last will as relates to said bequest.

"To the Beverly Public Library of Beverly, Massachusetts, the sum of one thousand dollars, to be used for the general purposes of said library."

1912

Jan. 1, balance from last account		$1,033 20
Income from investments		38 60
December 31, balance		$1,071 80

Invested, Beverly Savings Bank, Book 17677.

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CEMETERY TRUST FUNDS

ENDOWMENT OF LOTS

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Abbott, Frederick	$400 00	$0 76	$16 16	$16 92	$14 00	$2 92
Allen, Rebecca W	100 00	8 86	4 38	13 24	3 00	10 24
Andrews, Frances E	100 00	2 91	4 12	7 03	4 50	2 53
Baker, Stephens	200 00	2 67	8 16	10 83	6 50	4 33
Batchelder, Ira D	150 00	9 40	6 42	15 82	8 00	7 82
Bell, Samuel	150 00	.....	1 50	1 50	.....	1 50
Benson, Henry	125 00	16	5 04	5 20	4 50	70
Burley, Edward	500 00	122 31	25 12	147 43	14 00	133 43
Bates, Nancy W	200 00	2 94	8 16	11 10	9 50	1 60
Bray, S. Bennett	300 00	19 40	12 88	32 28	7 50	24 78
Bray, Hannah S	300 00	23 78	13 06	36 84	12 00	24 84
Burke, Elizabeth	100 00	2 38	4 12	6 50	4 00	2 50
Burnham, Austin	200 00	10 44	8 48	18 92	6 00	12 92
Batchelder, William	150 00	3 00	6 18	9 18	4 25	4 93
Chase, Samuel P	100 00	3 66	4 16	7 82	5 00	2 82
Clark, Augustus N	500 00	125 88	25 26	151 14	.....	151 14
Carter, John W	100 00	19 46	4 80	24 26	.....	24 26
Clark, Peter *et als*	400 00	18 03	16 88	34 91	19 00	15 91
Clark, Richard	400 00	100 54	20 20	120 74	44 00	76 74

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Cole, Benjamin E.	$150 00	$3 13	$6 18	$9 31	$5 00	$4 31
Cole, Gideon	300 00	5 67	12 32	17 99	16 25	1 74
Cressy, Charles (see P. E. Clark)						
Cressy, Elizabeth	40 00	13 93	2 14	16 07		16 07
Cressy, Mary E.	100 00	04	4 04	4 08	4 00	08
Cressy, Sarah	100 00	55	4 04	4 59	4 00	59
Cross, Anna B.	100 00	4 54	4 20	8 74	4 00	4 74
Cross, Daniel E.	100 00	5 18	4 24	9 42	4 50	4 92
Cross, John H.	200 00	2 09	8 16	10 25	9 00	1 25
Curtis, Hannah E.	100 00	1 42	4 08	5 50	4 50	1 00
Day, Elizabeth B.	100 00	10 24	4 44	14 68		14 68
Doyle, Abram T.	300 00	20 97	12 94	33 91	9 00	24 91
Dodge, Augusta	100 00	1 49	4 08	5 57	5 50	07
Dodge, Andrew 2d	300 00	22 94	13 02	35 96	13 00	22 96
Dodge, Jacob E.	200 00	13 20	8 60	21 80	5 00	16 80
Driver, Emma E.	500 00	26 89	21 26	48 15	15 50	32 65
Elliott, Israel M. (see P. E. Clark)						
Elliott, Thomas	300 00	45 51	13 94	59 45	7 00	52 45
Endicott, William	1000 00	30 20	41 60	71 80		71 80
English, Philip	200 00	7 99	8 38	16 37	6 25	10 12

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
English, William G.	$200 00	$4 20	$8 24	$12 44	$6 00	$6 44
Everett, Mildred	300 00	35 34	13 54	48 88	7 25	41 63
Foster, Abby C.	300 00	17 93	12 82	30 75	12 00	18 75
Foster, Calvin	150 00	8 64	6 38	15 02	8 25	6 77
Foster, Elizabeth K.	300 00	Deposited	October 31,	1912		
Foster, Rev. Joseph C. and Julia G.	200 00	7 09	8 36	15 45	7 00	8 45
Foster, Joseph L.	150 00	16 98	6 72	23 70	4 00	19 70
Foster, Sarah E.	150 00	3 91	6 18	10 09	5 00	5 09
Frankland, Martha E.	100 00	21	4 04	4 25	4 00	25
Frink, Uella	200 00	74 41	11 06	85 47	7 50	77 97
Galloupe, Charles W.	250 00	16 92	10 76	27 68	7 50	20 18
Gilmore, John M.	100 00	2 81	4 12	6 93	4 00	2 93
Goodwin, Robert	150 00	59 89	8 46	68 35	.....	68 35
Goodwin, Mary E.	200 00	9 67	8 44	18 11	9 00	9 11
Grant, Benjamin D.	100 00	.....	4 04	4 04	4 00	04
Green, John A.	650 00	8 59	26 58	35 17	21 00	14 17
Hale, Zebulon O.	150 00	1 50	6 10	7 60	.....	7 60
Haskell, Gardner	100 00	16	4 04	4 20	4 00	20
Hatch, Abigail	100 00	5 58	4 24	9 82	4 00	5 82
Haynes, Louisa	300 00	59 35	14 50	73 85	6 90	66 95

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Hildreth, Sarah E.	$250 00	$63 45	$10 62	$74 07	$54 50	$19 57
Homans, F. W.	100 00	Deposited	November	19, 1912		
Jaquith, Mary F.	150 00	30 15	7 26	37 41	5 43	31 98
Jones, Abbie K.	100 00	4 26	4 20	8 46	8 00	46
Kimball, Benjamin P.	150 00	9 92	6 44	16 36	4 00	12 36
Kinsman, Oliver D.	100 00	.....	4 04	4 04	3 75	29
Lane, Medora L.	50 00	50	2 02	2 52	.....	2 52
Lanphear, H. Augusta	200 00	04	8 08	8 12	5 25	2 87
Larcom, Lucy	100 00	70	4 04	4 74	4 50	24
Larrabee, William	200 00	5 64	8 28	13 92	6 00	7 92
Lee, George W.	100 00	42 45	5 74	48 19	.....	48 19
Lee, Philip	100 00	1 68	4 08	5 76	3 75	2 01
Lefavour, Amos	100 00	5 86	4 24	10 10	1 54	8 56
Lefavour, Joseph W.	500 00	64 58	22 78	87 36	12 88	74 48
Lord, Cyrus W.	300 00	9 67	12 48	22 15	10 00	12 15
Lord, Mary	100 00	21 31	4 88	26 19	5 00	21 19
Lovett, Ann T.	700 00	56 38	30 54	86 92	57 25	29 67
Lovett, Benjamin	100 00	1 08	4 08	5 16	4 00	1 16
Lovett, Christianna	300 00	28 65	13 26	41 91	9 50	32 41
Lovett, Samuel P.	400 00	12 63	16 64	29 27	8 25	21 02

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Lovett, Stephen	$200 00	$4 03	$8 24	$12 27	$7 00	$5 27
Lovett, Edward B	300 00	85 53	15 56	101 09	11 00	90 09
Lovett, Emily H	200 00	4 18	8 24	12 42	7 50	4 92
Lovett, John Dyson	2000 00	6 06	81 84	87 90	56 25	31 65
Ludden, Benjamin	150 00	1 96	6 10	8 06	4 50	3 56
Mason, Lucy A	250 00	2 10	10 18	12 28	7 50	4 78
Mason, Lyman	50 00	04	2 02	2 06	2 00	06
Mason, Mary E	200 00	1 53	8 12	9 65	7 00	2 65
Marshall, Charles	100 00	1 40	4 08	5 48	4 50	98
Marshall, Moses	100 00	1 49	4 08	5 57	4 25	1 32
Masury, Hannah H	100 00	2 69	4 12	6 81	3 25	3 56
Merchant, Elizabeth F	200 00	Deposited	December	26, 1912		
Merrill, Alonzo N	100 00	1 34	4 08	5 42	5 00	42
Morgan, William	100 00	.....	2 00	2 00	2 00	.....
Mosman, Tyler	150 00	7 40	6 34	13 74	8 50	5 24
Moulton, Charles	350 00	33 22	15 46	48 68	7 50	41 18
Newman, Sewell H	225 00	7 61	9 38	16 99	6 50	10 49
Norwood, Louisa	100 00	2 66	4 12	6 78	4 00	2 78
Obear, Augusta	100 00	2 36	4 12	6 48	4 25	2 23
Obear, Ezekiel F	100 00	76	4 04	4 80	4 50	30

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Ober, John	$150 00	$8 96	$6 40	$15 36	$3 25	$12 11
Ober, Joseph E.	50 00	2 43	2 10	4 53	3 00	1 53
Ober, Andrew and Diana	100 00	7 84	4 32	12 16	4 00	8 16
Odell, Charles H.	200 00	6 02	8 32	14 34	6 02	8 32
Odell, Samuel	100 00	4 69	4 20	8 89	2 50	6 39
Pickett, John	500 00	22 22	21 08	43 30	28 02	15 28
Pickett, Josiah	100 00	8 14	4 36	12 50	4 00	8 50
Pickett, Richard	150 00	4 06	6 22	10 28	7 00	3 28
Pope, Jasper F.	300 00	21 78	12 98	34 76	7 00	27 76
Porter, Robert G.	100 00	3 02	4 16	7 18	4 25	2 93
Prescott, John J.	200 00	5 66	8 28	13 94	5 00	8 94
Preston, David A.	100 00	1 32	4 08	5 40	4 00	1 40
Preston, Richard J.	200 00	17 55	8 76	26 31	25 25	1 06
Prince, Hannah J.	100 00	4 49	4 20	8 69	4 00	4 69
Prince, Susan	150 00	Deposited	August 5,	1912		
Ray, Isaac	100 00	1 64	4 08	5 72	5 00	72
Redding, Rev. Charles W.	50 00	1 45	2 06	3 51	2 00	1 51
Remmonds, Martha J.	100 00	2 87	4 12	6 99	4 75	2 24
Robertson, Emeline S.	100 00	.....	1 00	1 00	.....	1 00
Rich, Rev. Dr. A. B.	200 00	35	8 08	8 43	6 50	1 93

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Ryder, Mary E.	$100 00	.....	$1 00	$1 00	.....	$1 00
Safford, John	200 00	$13 02	8 60	21 62	$7 00	14 62
Savory, Mary J.	200 00	6 25	8 32	14 57	14 57	.....
Shaw, Warren	150 00	1 05	6 10	7 15	5 00	2 15
Smith, Samuel	75 00	3 27	3 14	6 41	3 75	2 66
Smith, Charles F.	200 00	7 04	8 36	15 40	7 10	8 30
Smith, Susan E.	125 00	4 00	5 20	9 20	4 50	4 70
Sohier, William D.	100 00	.....	3 01	3 02	3 00	02
Southwick, Sarah F.	100 00	1 43	4 08	5 51	4 00	1 51
Spiller, Benjamin F.	150 00	.....	4 52	4 52	2 50	2 02
Standley, Andrew	150 00	3 78	6 18	9 96	4 75	5 21
Stanley, John O.	200 00	4 26	8 24	12 50	6 00	6 50
Stanley, William	100 00	9 68	4 40	14 08	3 08	11 00
Staten, Daniel F.	300 00	11 31	12 56	23 87	7 75	16 12
Stevens, Alden C.	100 00	1 90	4 08	5 98	5 00	98
Stevens, Abba H.	100 00	2 46	4 12	6 58	5 00	1 58
Stone, Catherine	200 00	9 08	8 44	17 52	5 75	11 77
Stone, Ezra A.	200 00	6 57	8 32	14 89	5 25	9 64
Stone, E. Foster	500 00	25 20	15 08	40 28	13 75	26 53
Story, Lila E.	300 00	.....	6 00	6 00	5 31	69
Story, Charles D.	200 00	7 24	8 36	15 60	5 00	10 60

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Story, John L.	$150 00	$3 02	$6 18	$9 20	$4 50	$4 70
Symmes, Richard	100 00	89	4 04	4 93	4 50	43
Symonds, Samuel B.	350 00	116 83	18 84	135 67	11 75	123 92
Taylor, Hervietta G.	100 00	1 00	3 05	4 05	3 00	1 05
Teague, Margaret B.	100 00	12 39	4 52	16 91	4 00	12 91
Thissell, George	50 00	1 84	2 06	3 90	2 00	1 90
Thissell, Joanna	100 00	9 94	4 42	14 36	5 25	9 11
Thissell, Samuel	50 00	56	2 02	2 58	2 00	58
Thissell, Thomas	100 00	2 71	4 12	6 83	4 50	2 33
Thorndike, Anna	300 00	19 07	12 88	31 95	7 00	24 95
Trask, Joshua F.	150 00	15 17	6 66	21 83	5 00	16 83
Trow, Martha P.	200 00	84 84	11 48	96 32	6 50	89 82
Tuck, Calvin	125 00	32 63	6 34	38 97	.....	38 97
Tuck, Joseph D.	150 00	59 89	8 46	68 35	.....	68 35
Tuck, Mary E.	200 00	9 41	8 44	17 85	7 00	10 85
Wallis, Eleazer	225 00	1 13	9 12	10 25	7 00	3 25
Wallis, Est. of Eleazer	350 00	15 86	14 76	30 62	13 00	17 62
Wallis, Daniel	200 00	16 48	8 72	25 20	6 25	18 95
Wallis, Sarah E.	100 00	Deposited	September	16, 1912		
West, George H.	100 00	1 00	4 08	5 08	.....	5 08
Whitman, Daniel R.	100 00	6 14	4 28	10 42	9 00	1 42

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CEMETERY TRUST FUNDS—(continued)

NAME OF FUND	Original Deposit	Balance of Income Jan. 1, 1912	Income for 1912	Total Income and Balance	Expenditures for Year 1912	Balance Dec. 31, 1912
Whiting, Mary J.	$150 00	$16 17	$6 70	$22 87	$5 50	$17 37
Wilkinson, Elizabeth	500 00	23	20 20	20 43	20 25	18
Wilson, Joseph	250 00	12 30	10 58	22 88	16 29	6 59
Wiggin, Mary J.	200 00	5 66	8 28	13 94	9 25	4 69
Woodbury, Elisha	200 00	36	8 08	8 44	7 00	1 44
Woodbury, Rev. Augustus, D.D.	200 00	5 41	8 28	13 69	6 00	7 69
Woodbury, George A.	100 00	11 55	4 48	16 03	4 00	12 03
Woodbury, Luther	200 00	Deposited	October 22,	1912		
Woodbury, Nancy H.	200 00	25 62	9 10	34 72	6 00	28 72
Woodbury, Thomas	100 00	2 70	4 12	6 82	4 00	2 82
Woodbury, Zebulon	100 00	24	4 04	4 28	4 00	28
	$34,290 00	$2,283 12	$1,402 43	$3,685 55	$1,188 39	$2,497 16

Respectfully submitted,

ALBERT BOYDEN,
PARKER S. DAVIS,
JOSEPH C. KILHAM,
CHARLES E. OBER,
CHARLES F. LEE,
Commissioners of Trust Funds.

APRIL 23, 1913.

Examined and approved as correct to the best of our knowledge and belief.

WILLARD O. WYLIE,
MARTIN R. LANE,
JOHN B. GOLDSMITH,
Committee on Finance and Appropriations.
HENRY S. PARKER, *City Auditor.*

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FOURTH ANNUAL REPORT

OF THE

TRUSTEES

OF THE

INDUSTRIAL SCHOOL

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 3, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing for printing in the Municipal Documents.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT No. 230, 1913

REPORT OF TRUSTEES

OF THE

BEVERLY INDUSTRIAL SCHOOL

REPORT OF THE SECRETARY AND EXECUTIVE OFFICER OF THE BEVERLY INDEPENDENT INDUSTRIAL SCHOOL

1912

To the Trustees of the Beverly Independent Industrial School:

GENTLEMEN:—I submit herewith the fourth annual report of the work of the school maintained under your direction. Accompanying this report of the Secretary is the report of the Director of the School, to which I refer you for detailed information.

Our school has reached the stage of assured success from the factory point of view, and substantial improvement and visible strength from the school stand-point.

Since early in October the school has been independent of its former High School associations. Mr. Riggs, instructor in Science, up to this time, severed his connection with the school. An instructor on full time will take his place early in the year. I feel that we owe a word of appreciation to Mr. Riggs for his sturdy attachment to the school and his earnest toil in its behalf.

In its new quarters at the McKay building, where three rooms, office, and reading room is at their service, the teachers and pupils feel that they have a domicile and an equipment for their own service.

The noticeable achievement of the year was the graduation of our first class (14 boys). The exercises took place Wednesday,

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December 18, 1912. The attention received from the public upon this occasion demonstrated the place which the school has taken in the community. It has been accepted and endorsed as an institution worthy of support.

The wage-earning capacity of these boys when they entered the school is conservatively estimated at $6.00 per week.

A capitalization of the boy's economic value to the community based on his wage-earning power at the time of entering the school may be placed approximately at $6,000.

$6.00 per week for 50 weeks = $300, or 5 per cent. on $6,000.

The wage-earning capacity of these boys at the time of graduation ranged from $15.00 to $18.00 per week.

A similar capitalization of the boy's economic value, based on the wage-earning experience of the fourteen boys graduated, gives a figure between $15,000 and $18,000; it varies with the individual.

$15.00 per week for 50 weeks = $750, or 5 per cent. on $15,000.

$18.00 per week for 50 weeks = $900, or 5 per cent. on $18,000.

When we sent these boys out into the factory on full time, it had cost the municipality and the State a little over $11,200 to maintain the school. The net cost to the city of Beverly was $5,600. The wages paid back to all the boys and returned to the community during the same period had amounted to a little over $10,000.

Giving no consideration to the remaining boys (56 in various stages of preparedness) and estimating the total cost as the price paid to place fourteen boys in the shop as skilled workmen, the cost is shown to be $800 per boy.

The expenditure of $800 per boy had raised the capitalization of his economic value from $6,000 to $15,000, or $18,000; a 13 per cent. investment in two and one-half years had increased the capital 150 to 200 per cent. We had left an active "stock in process" (56 boys in various stages of preparedness for the trade) and the prospects of a very much larger capitalization as years go by and the graduates become more skilled. During the two and one-half years the community had been profiting by over $10,000 in wages earned by members of the school.

In the world of finance an investment of this kind would be considered very favorably. I submit it as a very interesting problem in deferred dividends.

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The work of the coming year will be that of working o detail the academic course of study as it should present the s side of the work in parts, each one of which functions defi in the making of machinists and men.

Your Board has not confined its efforts to the estab school. Recognizing the scope of its usefulness as larger the measure of this school an attempt has been made to fin status of boys and girls leaving school to enter the industri our city. A report of an investigation carried on through co-operation of the representatives of the Woman's Educat and Industrial Union of Boston has been made.

This report has been based entirely upon information se from the pupils' standpoint and will be printed later.

An investigation of the employers' side should be prose next year, and from the two investigations some definite pro for part time, continuation, or other industrial school acti should be presented.

A chronicle of important actions taken by the Boar Trustees includes:

January 9, 1912.

Investigation of the possibilities of establishing an Agr tural Course authorized.

April 29.

Report of that investigation made as follows:

An investigation regarding the demand for agricul education was conducted by: (1) a letter of in sent to parents of about 250 boys who had left s during the last two and one-half years; (2) a car of all of the boys now in the High School; (3) a car of all of the boys now attending Grade 8.

Three responses were received from the above inq claiming an interest in the establishment of an pendent school in connection with the Industrial Sc I advise that it is inexpedient to establish such a co

In the conduct of this examination at the High School, siderable interest was manifested in such a course

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part of the High School work. An inquiry along this line resulted in sixteen *bona fide* applications for work in Agriculture. Consultation with Dr. Stimson, Agent of the State Board of Education confirmed my own conviction that this warranted the establishing of an Agricultural Course in connection with the High School.

I advise that it is inexpedient to establish such a course at this time, and recommend that steps be taken to make such a course operative commencing January, 1913.

It was voted that the above report be accepted as a report to the Board of Trustees of the Beverly Independent Industrial School. It was voted that the Board of Trustees request the Board of School Committee to continue its two members (Messrs. Moulton and Dow) on a special committee to co-operate with His Honor, the Mayor, in bringing about the establishment of a Course in Agriculture in connection with the High School, the same to be provided not later than January, 1913.

On Mr. Dow's motion it was voted to forward that portion of the recommendation which concerns the Board of School Committee with request for favorable action thereon. (They did take favorable action upon this.)

April 29.

Appointment of an Advisory Board to consist of:

Member of Company—F. T. Wentworth.

Foreman—Roy P. Hatch.

Journeyman—George A. Smith.

Outside Mechanic—Franklin C. Maude.

Citizen—I. Augustus Sturtevant.

June 19.

Joint meeting of Board of Trustees and Advisory Board.

September 20.

Joint meeting of Board of Trustees and Advisory Board.

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September 30.

Investigation authorized regarding employment of minors throughout the city.

November 26.

Graduation of full-time boys authorized.

December 18.

First class graduated.

December 31.

Annual report of Executive Officer received. Authorized continuation of investigation of juvenile employees.

The foregoing report is submitted to the Board of Trustees with the accompanying report of the Director of the School and certain statistics.

Yours respectfully,

R. O. SMALL,

Secretary and Executive Officer.

December 31, 1912.

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REPORT OF THE DIRECTOR BEVERLY INDEPENDENT INDUSTRIAL SCHOOL

For the Year Ending December 31, 1912

To the Executive Officer, and Board of Trustees of the Beverly Independent Industrial School:

GENTLEMEN:—In this report, the fourth of the school and the second issued by me, it seems advisable to repeat some of the facts covered by previous reports. This is due to the constant requests from parents and others for a manual or catalog of the school, hence this report must serve a double purpose. School authorities, leaders in industrial education, students and workers in movements for social betterment seek for information, slight as it is, such as this school can furnish. Even in our own community there is need for more information regarding the plans, methods, and results of this pioneer movement.

GENERAL INFORMATION

On August 2, 1909, the school was opened "for the purpose of instructing youths between the ages of fourteen and twenty-one years in day or evening classes in the machinist's trade or such other industrial trades or occupations as shall be deemed expedient by the Board of Trustees." Fifty boys were on the opening roll, and these were added to or released so that in all seventy-three different boys were on the roll during the year.

The general plan of conducting the school then put in force has been continued. As a "Part Time School" the boys are grouped in two divisions, "A" and "B," alternating in attendance upon factory for 50 hours per week, and school-room for 30 hours per week, during a school year of fifty weeks. While "A" is in the factory, "B" is in the school-room for a week, and this order is reversed for the following week so that each boy has twenty-five weeks' instruction in the factory and the same amount in the school-room. The division instructor remains with his division as a co-ordinator of shop and school-room work. In the

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factory an associate shop instructor comes into teaching contact with both divisions, and thus is a valuable factor in unifying the work.

In the school-room the instruction is practical and is based upon the boy's experience in the factory and must function with it. No text-book is used and home study is not insisted upon. Topics are taught only as they can be assimilated and grow out of the daily experiences. Because of the conditions arising from piece-work in the factory, the experience of the boys varies, hence the instruction must become more and more individual; this is accomplished by placing the boys in small groups or by giving individual instruction. For individual instruction the method is as follows: Should a boy be unable to grasp the topic presented to his small group, an appointment is made at once for special instruction and instruction continued till the matter is made clear. Instructors are given free periods for this work, and this method is producing very satisfactory results.

In the factory of the United Shoe Machinery Company the boys are put at work on parts of machines as commercial products and under *actual* shop conditions; there is no simulation of a factory; it *is* a factory, and the boys are actual workmen. There is no distinction in shop conditions and practice between this department and any other; so true is this that visitors notice only the youth of the workers in the school. In common with all departments the boys work on piece-work. The job for each boy is chosen both with regard to his ability and for his further training. The finished work goes to the inspector for this department, and, if satisfactory, is sent on for other operations or goes to the stock-room exactly like the product of any other workman; if unsatisfactory, the work is either returned to be made right or is sent to the scrap heap. The boy is not left for instruction from his fellow-workmen (who are paid for turning out work, not for acting as instructors), but is directed and taught by trained instructors who give their entire time to this. No work is given simply as an "exercise," neither is the boy exploited for the benefit of the factory. Thoroughness in workmanship is promoted by the fact that the jobs given to the boys call for a large number of similar pieces, each requiring his best efforts; a lesson driven home by practice on several hundred pieces is likely to be well learned.

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Students are paid one-half the piece-price paid in the factory for that particular operation. The other half goes to the factory as part recompense for the material used, the overhead expense of light, heat, power, investment in machinery and tools, and payment of the salaries of instructors while doing shop work.

MANAGEMENT AND CONTROL

Under the order of the City Council establishing the school, the management and control of the Beverly Independent Industrial School and of all property pertaining to the same is vested in a Board of Trustees, consisting of His Honor the Mayor of Beverly, five members of the Beverly School Committee, one or more citizens of Beverly appointed for a term of three years by His Honor the Mayor, as follows: Each proprietor of an industry who shall provide facilities satisfactory to the Board of Trustees for the practice work of pupils of the school shall be represented by one member of the Board of Trustees nominated by the proprietor of the industry and appointed by the Mayor.

The Board of Trustees is authorized to accept the co-operation of the School Committee, and to occupy and use school property with the permission of the School Committee, and to enter into such arrangements of co-operation with proprietors of the various industries as they shall deem expedient.

They shall elect a secretary and executive officer and all other necessary officers and teachers and fix their salaries.

The Board must conduct all the affairs of the School in such a manner as to receive the approval of the Massachusetts State Board of Education and entitle the City of Beverly to be reimbursed by the Commonwealth for such portion of the cost of maintenance of the Industrial School as is provided by the laws of the Commonwealth.

The State contributes one-half the cost of maintenance of the school, but bears no part of the cost of equipment.

LOCATION AND EQUIPMENT

For over a year the school has occupied quarters in the McKay Street School. It now uses the following: Drafting room, equipped with thirty-six drafting stands and stools, models

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and parts of machines; ante-room for the cabinets containing individual drawers for the storage of boards and tools; two class rooms, each used exclusively by one division, handsomely equipped with adjustable box desks, chairs, slate boards, etc.; reading and social room, furnished with tablet chairs, tables, games and periodicals; supply and stock room, from which articles are delivered only on receipt signed by the student; director's office, provided with filing cases, card indexes, typewriter and other office necessities; private lavatory; dressing room for the athletic teams; a large well-lighted room in the basement will be equipped for work in practical application of science for machinists.

The outfit at the factory of the United Shoe Machinery Company is complete and is supplemented as required. It now contains the following machine tools:

GRINDING MACHINES

No. 2 Surface Grinder, Brown & Sharp Mfg. Co.
No. 2 Universal Grinder, Brown & Sharp Mfg. Co.

DRILL PRESSES

Five 24 in. Upright Drills, back-geared, sliding head, power-feed, quick return, Whitcomb-Blaisdell Co.
21 in. Upright Drill, same type as 24 in. above, Prentice Bros. Co.
18 in. Upright Drill, same type as 24 in. above, Whitcomb-Blaisdell Co.
Three 4-spindle Sensitive Drill, Prentice Bros. Co.
One-spindle Sensitive Drill, Henry & Wright Mfg. Co.
Two-spindle Sensitive Drill, Prentice Bros. Co.

LATHES

16 in. x 6 ft. Engine Lathe, screw cutting, hollow spindle, compound rest, power cross feed, Prentice Bros. Co.
14 in. x 6 ft. Engine Lathe, screw cutting, hollow spindle, compound rest, power cross feed, quick change gear feed box, Prentice Bros. Co.
14 in. x 6 ft. Engine Lathe, screw cutting, hollow spindle, compound rest, taper attachment, power cross feed, Pratt & Whitney Co.

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14 in. x 6 ft. Engine Lathe, screw cutting, hollow spindle, elevating rest, power cross feed, F. E. Reed Co.
Two 12 in. x 5 ft. Engine Lathe, same type as above, F. E. Reed Co.
Two 12 in. x 5 ft. Speed Lathe, Prentice Bros. Co.

MILLING MACHINES

Two No. 1B Plain Miller, Brown & Sharp Mfg. Co.
No. 2 Universal Miller, Brown & Sharp Mfg. Co.
No. 3 Vertical Miller, Becker Milling Machine Co.
Two No. 2 Plain Miller, American Tool Works Co.
No. 25 Plain Miller, Brainerd Milling Machine Co.
No. 2 Hand Miller, Pratt & Whitney Co.

OTHER MACHINES

17 in. x 17 in. x 4 ft. Planer, Whitcomb-Blaisdell Co.
24 in. Shaper, Hendey Machine Co.
No. 13 Gear Cutter, for Spur and Bevel Gears, Brown & Sharp Mfg. Co.
Centering Machine, Pratt & Whitney Co.
No. 2 Wet Tool Grinder, Diamond Machine Co.
Twist Drill Grinder, Washburn Shops.
⅝ New Model Hand Screw Machine, Pratt & Whitney Co.
16 in. Chucking Machine, power feed, Davis & Egan.
Magnetic Chuck, O. S. Walker.
Demagnetizer, O. S. Walker.
Dry Tool Grinder, U.S.M.Co.
Grinding Stone, Hill, Clark & Co.

In addition to this outfit, the students have access to the machines and tools found in the factory, including the equipment of the many well-stocked tool-rooms.

QUALIFICATIONS FOR ENTRANCE

No boy is admitted to the school until after a thorough examination by the Director. Boys are placed on the waiting list, if there are no vacancies at the time of application. In general, to be placed on this list, a candidate must be over fourteen years

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of age, must be of physical build sufficiently strong to carry on the work at the factory, must have entered the seventh grade in the public schools or have done equivalent work, and must have such a character as would assure his retention in the regular schools. The scholarship record of applicants is considered but does not have deciding weight; the fact of a boy's having failed in the grades is not of itself conclusive that he will fail here. Under new environment and with the added stimulus of seeing tangible results of his work, either in a piece of work that will be a part of a real machine which he himself may point out to his friends, or in the sight of money in his pay envelope, the boy may be revolutioned. It is the purpose of the school to help boys win. It should be the glory of the school that it can take boys who have failed elsewhere and help them "make good."

It is a pleasure to report that there has always been a waiting list, and this list is now very satisfactory and will be drawn upon shortly.

LENGTH OF COURSE

No definite time is set. In general, students are promoted to full time in the factory as soon as they are found proficient. Thus far this has taken place in the third year of attendance at the school, graduation coming in the fourth year. Promotions are based strictly on merit and not on length of attendance—in fact, several have entered on full time ahead of boys who had been longer in school.

DISCIPLINE

Students are allowed as much freedom as is consistent with good work. Rigid rules are kept in the background and students are expected to realize that they are preparing for a man's job with a man's responsibilities. Delinquencies, etc., are handled by the method used by the director for many years: at the opening of the year, each boy is given 100 hours to cover absences, tardinesses, and penalties; these are charged against the allowance in terms of hours. Tardiness of less than fifteen minutes is charged as fifteen minutes; absence, unless caused by some extraordinary event such as illness requiring confinement to bed and medical attendance, is also charged. When the allowance is exhausted the student automatically drops from the roll.

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RECORDS OF STUDENT TRAINING

Much care and time is given to school records, especially such as cover shop training. Students keep two graphical charts in duplicate containing: (1) data of weekly earnings, number of hours worked, and rate per hour; (2) record of machines used in work and also the number of hours given to each machine or type of work.

A written form report of each week's work and a free-hand dimensioned drawing is made out on Monday, and this report is filed at the office. Data are also filed in the office on cards containing such facts about each job that every essential detail can be given at any time, and facts regarding completed jobs such as hours spent, number of pieces, price received, rate per hour, and per cent. of defective pieces.

These records are so complete that reliable data can be given regarding any part of a boy's course. The training and stimulus given a boy in filling out these cards is worth far more to the boy than to the office, even. These records are supplemented by large charts kept in the director's office, accessible to boys or to parents.

PRINCIPAL STUDIES

Mathematics

Arithmetic, algebra, geometry, and trigonometry in their practical application are so continuously studied during the course that our students have a very thorough training in these subjects. The method of approach is topical as determined by shop experiences, hence the subjects are interwoven. For example: intelligent discussion of the common screw threads requires the use of arithmetic, algebra, geometry and trigonometry, and may be handled in such a way as to develop some definite working points of contact with these studies suited to the capacity of the student.

Experience in this school has developed the following list of topics in which mathematics is used, the extent of ground covered being regulated by the progress of the student. Subjects are attacked and reviewed according to the "spiral" method.

Decimal equivalents of machinist's fractions, *i.e.*, fourths, eighths, sixteenths, etc. Changing decimals to the nearest

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machinist's fraction. Tapers—Brown & Sharp. Setting over the tail-stock for turning tapers. Crowning pulleys when amount of taper is given as ratio, per inch or per foot, or as an angle. Pulley speeds and belting. Cutting speeds and feeds. Ordinary threads, depths, pitches and leads. Multiple threads. Fractional threads. Gearing lathe for thread cutting, simple and compound. Gearing for spiral cutting, simple and compound. Simple and differential indexing. Angles by indexing. Stag indexing. Spur gears. Bevel, worm and spiral gears. Corrected tooth parts of spur, bevel, spiral, worm and worm gears. Lead and angle of spirals. Cutting depth of bevel gears. Clearance on tools for cutting worms and square threads. Finding the cutter for spiral gears. Finding the angle for hobbing worm gears. Finding and solving triangles on blueprints.

Arithmetic

In addition to the fundamental operations there is constant need of all operations with small fractions, common and decimal, square root, work in denominate numbers as applied to length and circular measure, ratio and proportion, and finding what per cent. one number is of another.

English

The utilitarian rather than the cultural value of this subject is emphasized in the teaching. The term "expression" conveys the best idea of the method and aim in handling this work; we shall be satisfied if the average boy attending this school will finally possess the ability to express even a simple train of thought with accuracy and conciseness whether orally or in writing. Material derived from the factory and school experience of pupils is abundant and constantly used in writing reports of shop operations, descriptions of hand and machine tools, actual letter writing in sending for catalogs or other material, exact statement in formulating rules for mathematical operations performed, etc.

Spelling is a regular exercise, the words being those found in daily work. Each student is supplied with a notebook which he has indexed and in which he has set down words which either he or his classmates have misspelled. Careful watch for misspelled words is kept by the instructors and these are at once

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added to the lists. Other devices are used to promote good spelling, but the spelling list thus made is the essential thing.

The regular writing of notebooks is becoming more and more important as a medium for expression. Several periods a week are given to this work under supervision of the instructors, and this furnishes a tangible record of the student's progress in clear thinking and equally clear expression.

The reading of magazines and other periodicals is fostered by the school reading room containing the following list of periodicals which are constantly and profitably used:

American Machinist
Century
Collier's Weekly
Engineering Index
Industrial Engineering
Popular Mechanics
Literary Digest
McClure's
Saturday Evening Post
Recreation
Scientific American
World's Work.

A number of the best reference books for machinists have been added to the library and are proving valuable for many purposes.

Mechanical Drawing

The student is taught to regard a drawing as a sheet of directions to a workman to do a certain piece of work exactly as written. To write these directions he must understand the language in which he is to write, must have a clear conception of the object of his message and must express himself clearly and concisely in this universal language of the industrial world.

As much variety as possible is given in the course, but these points are fundamental: the use of the instruments, simple projections, projections at common angles, simple intersections or penetrations, elementary theory of developments, layout of views, placing dimensions, freehand lettering. Pieces of machinery or machine parts are constantly used to illustrate principles and to furnish material for plates. So far as possible the piece is not shown to the student after he has made his data sketch. Elementary design is taught, especially in designing some simple jigs or fixtures. The results of this work have been very satisfactory.

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The instruction never loses sight of the fact that for machinists the final result sought in drawing should be the ability to read a blueprint, but it bears in mind also that the development of the power to visualize and to build up a clear mental image is a most valuable asset to any workman.

Freehand Sketching

This is supplementary to the above course and aims to give the student facility in making a rough sketch of the piece he has in hand. It is used also as a test of the facility of the boy in reading his blueprint. Practice in making working drawings from the rough perspective sketch is also given.

Geometry

No attempt is made to teach demonstrative geometry, unless the principle has been first developed by drawing or measurement. Much practice is given in common solutions of simple geometrical problems such as are met with in the shop or in the drafting room. The bearing of these problems on the boy's work influences the amount of time given to them. Drawing instruments and the protractor assist in fixing principles or facts that otherwise would have to be learned by sheer force of memory. To illustrate: the fact that the sum of the three angles of a triangle equals two right angles, or 180 degrees, may be very closely proved by measurements of the angles of a number of triangles, using the protractor. Invaluable facts regarding "similar" triangles may easily be learned by measurement.

Algebra

This subject is not approached along traditional lines. Viewed in its application to the machinist's vocation it finds its place in assisting him analyze, construct and solve formulas and handle such simple equations as are required in many familiar calculations. It is taught, also, as a preparation for work in trigonometry. The topics treated in a practical way cover the fundamental operations common to both arithmetic and algebra, the clearing of fractions in equations, the solution of equations containing only one unknown quantity, substitution, radicals to be simplified,

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and the simplest methods of factoring. Problems are abundant as collected from blueprints, the work in drawing, and discussions under shop practice.

Trigonometry

The objective of instruction here is the solution of right-angled triangles. In the most direct manner the trigonometrical functions are explained. Such drill is given on these that the students need not rely on anything but the tables of natural functions and is saved the necessity of either constantly consulting a handbook or of trespassing on the time of workmen better informed. The problems arising in the factory which demand a working knowledge of methods of solving triangles furnish numberless lessons for the students. Blueprints give most of the material for this study. It is a source of great satisfaction to the instructors to find that the graduates are called upon very frequently to use their knowledge of trigonometry for the benefit of those not so fortunate. In the advanced work of the machinist's trade this will be a most valuable asset.

Science

During the year it seemed advisable to change both matter and method of the science course and conduct the work under a special teacher in our own building. The work has been done hitherto at the high school building, and the school is indebted to the city school committee for its tender of the use of the building and laboratory since the opening of this school. Just as soon as the special teacher is elected the students will be grouped in three divisions and will give four hours per week to the study of the facts of science necessary to a broadly trained machinist. So far as possible the work will be inductive and will follow an outline suggested by the State Board of Education. It is believed that a course will be developed here that will be helpful to other schools.

Machine Study

For two hours a week small divisions have been attending the factory with an instructor for the purpose of studying machine tools more closely than could be done while at work in the factory.

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One of the tool rooms has been at the service of the class. In this are placed the machines under study, and the students give them thorough examination and receive full explanation from the instructor. This has proved of very great value and is a decided forward step in the school work. The work will be extended by visits to other departments of the factory to observe different types of machines at work. This is an opportunity that very few schools can afford.

SCHOOL YEAR, 1911–1912

The fiscal year of the city ends December 31, but the school year ends in July. This report, then, will include the third school year (beginning July 31, 1911, and ending July 13, 1912) and twenty-two weeks of the present school year.

On the opening day sixty-four were present distributed thus: beginning their third year, 35; second year, 13; and new pupils, 16. For the entire year the roll shows:

Total number of different pupils	80
On roll at end of year	49

The balance of 31 are accounted for thus:

Promoted to full-time	14
Left to work elsewhere	5
Returned to regular school	2
Left on account of illness	2
Moved from the city	2
Expelled	6

The per cent. of attendance for the year was 97. Tardiness was high, but may be partly explained by the long distance to be walked by most of the boys. To illustrate this: sixteen per cent. lived more than a mile and a half away, twenty per cent. lived from one to one and a half miles away, and thirty-eight per cent. lived nearly a mile from school.

Full-time Students

This year was most important because of the promotion on October 9, 1911, of eight boys from part-time to full-time. On

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February 26, 1912, six more were promoted. The results from the wage-earning standpoint are most encouraging and are treated at length in a later section of this report under "Graduates."

In my last report I dwelt particularly on the comparative earnings of the students. The figures I then presented proved so useful that I am glad to give here for permanent record a complete statement of comparative earnings by years and by groups. It must be borne in mind that the earnings are *net*, that one-half only of his actual earnings goes to the student.

NET EARNINGS OF STUDENTS, 1911–1912

	Hours Worked	Cash Received	Rate per Hour, each Boy
Boys in First Year....	24,371.25	$1,626.29	6 cents, 7 mills.
Boys in Second Year ..	15,095	1,009.36	6 cents, 7 mills.
Boys in Third Year ...	26,109	2,269.04	8 cents, 7 mills.

Average rate per hour of all part-time boys, 7½ cents.
Average net earnings per week of 50 hours, $3.75.
(Actual earnings per week of 50 hours, $7.50.)
Earnings of Group I, Full-time Boys, $3,888.84; rate per hour, 28 cents.
Earnings of Group II, Full-time Boys, $1,449.56; rate per hour, 26 cents.

Total wages received by boys during the year, $10,243.09. This is nearly double the amount received by the boys for the entire two years preceding. The exhibit follows:

1909–10.	73 boys earned.....	$2,093.68
1910–11.	62 boys earned.....	3,408.20
1911–12.	80 boys earned.....	10,243.09
	Total earnings, 3 years.....	$15,744.97

The average increase per week of fifty hours received by each boy this year compared with the previous year was seventy-five cents. Stated another way, each boy increased his actual earnings, $1.50 per week.

The above average does not fairly represent the facts. Boys who were in attendance even for one week, hence poor earners,

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are counted; but, even thus, twenty-one boys or one-fourth of the entire earners rated higher than the school average, their rate ranging up to thirteen cents; ten earned nine cents or over.

In considering these encouraging facts it is well to remember that the school lost its best earners early in the year by promotion.

PART OF FOURTH YEAR,

JULY 29—DECEMBER 28, 1912

The school re-opened for its fourth year with fifty-two names on the roll, a loss of only one boy from those present at the close of the third year; this loss was caused by illness following an operation. More applications were received than could be admitted, but several of these have since been admitted. It is significant that most of the applicants had either entered the high school or were ready to enter. The roll at this time shows:

Number of different boys since July 29.....64

These are distributed:

Full-time	8
Fourth year	6
Third year	11
Second year	21
First year	16
Expelled	1
Left to work elsewhere	1

On October 28, six boys were promoted to full-time and two more were added on November 4.

A study of the occupations of the fathers of the students reveals some important facts. Last year only five fathers were machinists or metal workers; this year twenty-two is the record, an index of the value placed on the training by men in the trade. Of this number, twenty are workers in the United Shoe Machinery Company. Of other occupations six are clerks or storekeepers, four are shoeworkers, tailors furnish two as do also chauffeurs and laborers. Six fathers belong to other vocations. One is an engineer.

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EARNINGS FOR TWENTY-TWO WEEKS OF PRESENT YEAR

	Hours Worked	Net Wages	Net Rate per Hour
Part-time boys in first year.	$5,865.25	$403.08	7 cents
Part-time, second year.....	9,801.50	870.36	9 cents
Part-time, third year.....	10,791.50	1,021.84	9 cents

The total earnings are $2,295.28, giving a rate per hour of 8 cents, 7 mills, or, in terms of a 50-hour week, $4.35. The actual wage value of each boy is thus $8.70. This is a gain per hour over the same period a year ago of 2 cents, or one dollar a week; the conclusion is unavoidable that the boys are "on the job" as well as the instructors. This result does not include the full-time earnings.

An examination of further data shows that the boys who have entered in the past two years have a rate per hour nearly double that of a similar group of three years ago.

This exhibit of earnings is most valuable from this aspect, that it is an index of the spirit of the school. Constant pressure on the part of director and instructors has been exerted to develop such a spirit of being "on the job" that both school-room and shop work should show improved results. The tangible result of this is in the increased pay. The earnings of the boy are not the standard by which his work should be judged. The school exists for the training of the boy, and this is never lost sight of, however desirable it might be to swell his pay envelope but add little to his practical training. Again, a large pay is no index of the quality of the work unless it is accompanied by freedom from defective work. This will be referred to later in this report.

At this point I wish to report the splendid spirit of the shop and division instructors. In spite of the pressure exerted by the Director to keep the wage standard constantly rising, the instructors have steadily chosen for each boy the job which would result in his improved training, irrespective of the wage returns. It is a pleasure to record such singleness of purpose in carrying out the spirit of the school.

QUALITY OF SHOP WORK

There would be no cause for congratulation on a high rate of wages if the amount of defective work increased. I am able to speak definitely on this point, thanks to the co-operation of

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the inspection department. For forty weeks I have kept careful record of defective pieces or "junk" charged against our boys. The average per cent. of defective pieces is only 1.77, a very satisfactory showing. Considering the exact measurements to which a boy's work must conform and the minute inspection given, this record of efficiency, 98.23 per cent., is a proof of the faithful teaching of the instructors and a corresponding response by the boys.

An individual report of defective pieces is given to each boy and is recorded on his "Completed Job Card."

FIRST GRADUATION EXERCISES

The leading school event of the year was the first graduation exercises of the school, which took place December 18, in High School Hall. Fourteen young men received certificates of graduation as the class of 1912; twelve of these are machinists, the others, draftsmen.

As the course followed by these is typical of that planned for others, it may be of special interest to outline their training and its results.

From its entrance on August 2, 1909, this class spent alternate weeks in factory and school on part-time, but on October 9, 1911, eight were promoted as full-time students working fifty hours per week in the factory and receiving all their earnings. They were under regular factory conditions in every respect, and were subject to supervision by the Director who could place them back again to part-time in case of unsatisfactory work or conduct. The full-time students were given a wide variety of work and were assigned to eight different foremen. After fourteen months of service satisfactory to the foremen and the United Shoe Machinery Company, the board of trustees recommended their graduation, and added to the list six more boys who went out on full-time February 26, 1912.

The unanimous testimony of the foremen is that our students are resourceful, conscientious, skilled and careful in their work. "Give us more," is the verdict of these practical men whose business it is to employ and retain only well-trained workmen.

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Judging by results thus far reached we need have no fear that our students will not "make good."

The program of the graduation is appended to this report.

I have spent much time collecting and arranging data for a study of the earnings of the twelve machinists during their entire course ending December 28, 1912; this has furnished results which are valuable as showing the growth in earning power and investment value due to systematic vocational training. In the data here given I have arranged the graduates into two groups: I, six boys who entered on full-time October 9, 1911, after working fifty-five weeks in the factory on part-time; II, six boys who entered on full-time February 26, 1912, after sixty-five weeks of part-time. This arrangement affords a fair comparison of earnings of groups having different factory experience.

The earnings are arranged in columns of twenty weeks each; for the part-time periods I have doubled the figures, thus presenting the actual earnings as an equitable basis of comparison. The table given below is, I trust, self-explanatory, but I wish to emphasize certain points. Although Group I seems to earn less than Group II it must be remembered that twenty weeks of full-time service separate the groups so that it is best to compare any period of Group II with an earlier period of Group I. It will thus be seen that the wage-earning power of the graduates is practically uniform.

The weekly pay of the groups increased from $4.31 to $9.40 for the part-time period and from $12.80 to $16.75, for the full-time period, although several boys worked for a number of weeks on day wages instead of piece-work. Expressed concisely, these boys in 120 weeks of shop work increased their earnings 250 per cent., so that they now average $800 a year. Had it been possible for them to remain in the grade schools they would not yet have graduated from the high school! At a later date I shall be able to present figures showing comparative earnings of these boys and others who were classmates with them in the grade schools.

In the "investment or potential value" of the boys we have another significant figure. This means the amount of money which, if invested at five per cent., would yield an income equal to the wages of a boy for one year. Thus, a boy earning $15 a week, or $750 a year of fifty weeks, earns the equivalent of the

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interest or income from $15,000; his investment value is thus $15,000. In three years of training in school-room and shop the potential value of our boys has grown from a small figure up to $15,650, and the end is not yet.

The only data available for comparison, so far as I know, is the valuable chart compiled by James M. Dodge when president of the American Society of Mechanical Engineers. At the age of our graduates the boy without a training is earning $6.20 per week, while the boy who enters shop from a trade school at the age of 19 earns $12 per week. The trade school boy on Mr. Dodge's list does not reach the present wage of our boys till he is 21 years old.

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MONEY VALUE OF TRADE TRAINING SHOWN BY EARNINGS OF TWELVE MACHINIST STUDENTS, CLASS OF 1912, TWENTY-WEEK PERIODS, AUGUST 2, 1909—DECEMBER 28, 1912

Group	Periods of Twenty Pay Weeks	Time in Factory	Rate per Hour	Rate per Week of Fifty Hours	Investment or Potential Value on which 5 per cent. is earned
I	Aug. 2, 1909 to May 14, 1910	Part-time	.0431	$4.31	$4,320.00
II	Aug. 2, 1909 to May 14, 1910	Part-time	.0456	4.56	4,560.00
Average age 16				Average $4.44	
I	May 16, 1910 to Feb. 25, 1911	Part-time	.0710	$7.00	$7,000.00
II	May 16, 1910 to Feb. 25, 1911	Part-time	.0600	6.00	6,000.00
				Average $6.50	
I	Feb. 27, 1911 to Oct. 7, 1911, 15 weeks	Part-time	.0913	$9.13	$9,130.00
	Oct. 9, 1911 to Nov. 11, 1911, 5 weeks	Full-time	.2559	12.80	12,800.00
II	Feb. 27, 1911 to Dec. 16, 1911	Part-time	.0880	8.80	8,800.00
I	Nov. 13, 1911 to March 30, 1912	Full-time	.3060	$15.30	$15,300.00
II	Dec. 18, 1911 to Feb. 24, 1912, 10 weeks	Part-time	.0945	9.45	9,450.00
	Feb. 26, 1912 to June 8, 1912, 10 weeks	Full-time	.2594	12.97	12,970.00
I	April 1, 1912 to Aug. 10, 1912	Full-time	.3244	$16.22	$16,220.00
II	June 10, 1912 to Nov. 2, 1912	Full-time	.2825	14.13	14,130.00
I	Aug. 12, 1912 to Dec. 28, 1912	Full-time	.3348	$16.75	$16,750.00
II	Nov. 4, 1912 to Dec. 28, 1912	Full-time	.2908	$14.55	14,550.00
Average age 18 yrs. 7 mos.				Average $15.65	Average $15,650.00

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RETURNS TO THE CITY

The school, through part-time, full-time and graduates is adding $1,000 a month to the wealth of the city. Since its organization it has returned $2.00 in wages for every dollar spent upon it by State and city and nearly $4.00 for every dollar spent by the city.

More than all this, the school is seeking to train *men*; it looks confidently to the future because of its record in the past and is sure that its contribution to good citizenship will be a rich return for the generous support given it by the city.

Respectfully submitted,

WILLIAM P. TAYLOR,

Director.

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FIRST GRADUATION EXERCISES

OF THE

BEVERLY INDEPENDENT INDUSTRIAL SCHOOL
BEVERLY, MASSACHUSETTS

HIGH SCHOOL HALL,
WEDNESDAY, DECEMBER 18, 1912, AT 8 P.M.

—PROGRAM—

Orchestral Music by Towne's Orchestra
Charles H. Towne, Director

Vocal Music by the Girls' Glee Club of the Beverly High School
J. W. Calderwood, Conductor

MARCH, "Love and Glory" — *Smith*
OVERTURE, "Bridal Rose" — *Lavalee*
IDYL, "Liebesfruehling" — *Ehrich*

ORCHESTRA

INTRODUCTORY REMARKS,
WILLIAM P. TAYLOR, *Director of School*

GAVOTTE, "Come Dance with Me" — *Lemaire*

GIRLS' GLEE CLUB

ADDRESSES

M. B. KAVEN
General Superintendent United Shoe Machinery Co.

GEORGE W. BROWN
Vice-president United Shoe Machinery Co.

"The Rosary" (arranged) — *Nevin*

GIRLS' GLEE CLUB

ADDRESS

FREDERICK P. FISH
Chairman Massachusetts State Board of Education

PRESENTATION OF GRADUATION CERTIFICATES
FREDERICK A. DODGE
Mayor, City of Beverly

MARCH, "School Comrades" — *Engelmann*

ORCHESTRA

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GRADUATES, CLASS OF 1912

Nicholas Boniface
George Ernest Briggs
James Henry Connolly
Thomas Vincent Daley
Jerome Giancola
Otto Randolph Haas
John Wesley Keene
John Baptiste Larivee
George Henry Leonard
James Roland McPherson
Allan Bradford Morse
Harold Roy Peterson
William Chester Raymond
Carroll Maurice Wheeler

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BOARD OF TRUSTEES

OF THE

BEVERLY INDUSTRIAL SCHOOL

Hon. FREDERICK A. DODGE, Mayor.

CHARLES A. BAKER, Chairman of the School Committee.

GEORGE D. ALDERMAN, Member of the School Committee.

JAMES B. DOW, Member of the School Committee.

LEONARD B. MOULTON, Member of the School Committee.

BENJAMIN A. HUNTOON, Member of the School Committee.

GEORGE H. VOSE, Assistant Superintendent of the works of the United Shoe Machinery Company, Beverly, Mass.

ORGANIZATION

President, FREDERICK A. DODGE
Vice-president, CHARLES A. BAKER

Secretary and Executive Officer
ROBERT O. SMALL, Superintendent of the Public Schools

Committee on Instruction
Messrs. VOSE, DOW, MOULTON

Committee on Finance
Messrs. BAKER, ALDERMAN, HUNTOON

Committee on Buildings
Messrs. DOW, VOSE, HUNTOON

Committee on Rules
Messrs. ALDERMAN, BAKER, MOULTON

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BEVERLY INDEPENDENT INDUSTRIAL SCHOOL

Instructors

Fourth Year, beginning July 26, 1912

Director, William P. Taylor
Machinist-Instructor, Division A, Rene P. Thalmann
Machinist-Instructor, Division B, William R. Hamilton
Shop-Instructor, Joseph T. Whalen
Science, James Forbes

Third Year, July 31, 1911 to July 12, 1912

Director, William P. Taylor
Machinist-Instructor, Division A, Rene P. Thalmann
Machinist-Instructor, Division B, William R. Hamilton
Shop-Instructor, Joseph T. Whalen
Science, Otis M. Riggs

Second Year, August 1, 1910 to July 15, 1911

Machinist-Instructor, Division A, to December, 1910
Robert H. Lawson

Machinist-Instructor, Division A, from December, 1910
Rene P. Thalmann

Machinist-Instructor, Division B
To September, 1910, Messrs. Blood, Brown and Lawson
From September, 1910, William R. Hamilton
Shop-Instructor, Joseph T. Whalen
Science, Otis M. Riggs

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First Year, August 2, 1909 to July 16, 1910

Machinist-Instructor, Division A, ROBERT H. LAWSON
Machinist-Instructor, Division B, PAUL D. STAFFORD
Business and Social Forms, LAURA E. HORNE
Civics, HAROLD C. CHILDS
Science, to May, 1910, AUGUSTUS KLOCK
Science, from May, 1910, OTIS M. RIGGS

ADVISORY BOARD

T. F. WENTWORTH, U.S.M.Co., Member of the Company
ROY P. HATCH, Foreman
GEORGE A. SMITH, Journeyman
FRANKLIN C. MAUDE, Outside Mechanic
I. AUGUSTUS STURTEVANT, Citizen

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SIXTEENTH ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 10, 1913.

Received, read by its title, and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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REPORT OF CITY ENGINEER

BEVERLY, MASS., March 4, 1913.

To His Honor, the Mayor, and Board of Aldermen:

GENTLEMEN:—I have the honor of submitting the following report of the City Engineer's Department for the year ending December 31, 1912. It shows the nature of the work performed, the property under my charge, and the expenses of the year.

STATEMENT OF EXPENSES

APPROPRIATIONS

Salary	$1,500 00	
Maintenance	5,174 00	
Total		$6,674 00

CHARGES

Salary	$1,500 00	
Maintenance	5,134 06	
Total		$6,634 06
Unexpended balance		$39 94

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CLASSIFICATION OF EXPENSES

Cost of Engineering in connection with:

Abbott Street steps	$11 79
Beverly Farms Playground	79 26
Cabot Street smooth paving	236 97
Cemetery Department	50 21
Herrick Street construction	23 76
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Miscellaneous items	363 85
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Office work	702 88
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Public Library	4 19
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Sewers, Balch, McKay and Bosworth Streets	88 07
Sewers, Ward Four	1 17
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WORK IN GENERAL

The work carried on under this department is of a varied character. It includes the designing and superintending of the construction of all sewers, surface drains, sidewalks, playgrounds, cemetery improvements, public works and all contract work in general, as they may be authorized; the making of such surveys, plans, estimates, investigations, descriptions and specifications for work, as the Mayor, Board of Aldermen, or any committee, department or head of department may require; the custody of all plans and profiles and the engineering work of all departments of the city.

ABBOTT STREET STEPS

At the request of the committee on streets, a survey was made of the foot of Abbott Street. Preliminary plans and an approximate estimate was made of the cost of improving this part of Abbott Street. The plans called for the construction of a granite sea-wall across the street with granolithic steps leading from the beach to the higher elevation, together with a wooden shelter and the necessary filling and grading.

BEVERLY FARMS PLAYGROUND

The development of this playground, which was started in 1911, has been completed. The original plans were strictly adhered to, and the cost did not exceed the appropriation. A complete description of this playground can be found in the City Engineer's Report for 1911. The work involved during 1912 included giving lines and grades for the final grading, taking measurements and certifying to the final payments and erecting and placing a wire fence and the playground equipment.

CABOT STREET SMOOTH PAVING

The smooth paving of Cabot Street starts with the Beverly–Salem Bridge, and extends to Fayette Street, which was the starting point of the stretch constructed in 1908–1909. When this is completed, there will be a continuous stretch of smooth

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paving from the Bridge to Federal Street. The paving is a Hassam Block Paving. The work includes laying about 9,400 square yards of this block paving, laying about 1,625 linear feet of new curbing, and relaying about 1,300 linear feet of old curbing, constructing new sidewalks and an entirely new system of surface drains. The work done in 1912, included laying 1,500 square yards of the block pavement, setting 1,300 linear feet of new curbing, resetting 385 linear feet of old curbing, constructing 630 square yards of sidewalks and the entire system of surface drains.

This department made all the preliminary surveys and estimates, took all levels and cross-sections, established all grades for paving, curbing, electric car tracks, and the drainage system. This department also gave all lines and grades for this construction, as well as certifying to all of the payments to contractors. Out of a $35,000.00 appropriation, nearly $23,000.00 remains to be expended.

CEMETERY DEPARTMENT

The usual routine work has been attended to for this department. With the Cemeteries at North Beverly and Beverly Farms, the work has comprised chiefly in staking out lots and computing areas.

In addition to this regular work at the Central Cemetery, certain improvements have required the services of this Department.

An extension of the Surface Drainage System was made in Larch and Maple Avenues. The work was done by contract, this Department being required to establish and give all lines and grades, as well as to certify to all measurements and payments to the contractor.

A topographical survey and plan was made of the Artificial Pond in the Central Cemetery, and the land immediately abutting the same. This plan was used in connection with landscape work.

At the North Beverly Cemetery, cross-sections were taken of the unimproved single grave lots and quantities computed for cutting and grading to the level of the avenues.

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HERRICK STREET RECONSTRUCTION

This work, which was started during 1911, by contract, was completed during 1912. The work accomplished this year included graveling the street, setting the curbing, building all fences, and grading the Hospital banking. All measurements and estimates were certified to by this Department.

McKAY STREET AND COUNTY WAY CONSTRUCTION

This work includes the construction of McKay Street Extension from Balch Street to the County Way (so-called), County Way from McKay Street to Cabot Street and the reconstruction of the County Way between Elliott and Bridge Streets. $19,000.-00 was appropriated for this work, the work to be done by contract, the streets to be macadamized throughout and to have a complete drainage system. McKay Street is 50.0 feet in width and 2,029 feet long, while that part of County Way between McKay and Cabot Streets is 70 feet in width, 741 feet long, and that part of County Way between Elliott and Bridge Streets is 70 feet wide and 1,398 feet long. All three strips are to be constructed with a road-bed 26 feet in width as well as gravel sidewalks and grass plots.

The work accomplished during the year, included all the sub-grading on McKay Street and that part of County Way between McKay and Cabot Streets, about one-half of the sub-grading on County Way between Elliott and Bridge Streets, the installation of the surface drainage systems in McKay Street, the macadamizing of McKay Street and County Way between McKay Street and Cabot Street, and the construction of all sidewalks and grass plots on McKay Street and County Way between McKay and Cabot Streets. The remainder of the work will be completed in the early spring of 1913.

This department furnished detailed plans and specifications, gave all the lines and grades for construction and made and certified to all measurements for estimates to the contractor as required by ordinance.

The work is under the direct supervision of the City Engineer.

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PLAYGROUNDS

The work performed by this department for playgrounds during the year comprised chiefly in working up a tentative plan for an athletic field at the City Farm. These plans have been referred to a special committee for their consideration, and it is expected that some action will be taken by the incoming city government to develop this field in accordance with plans submitted.

The plans call for the leveling of about five acres of land, upon which will be laid out, base-ball and foot-ball fields, a quarter-mile running track, the construction of a covered grand-stand, as well as other features involved in an up-to-date athletic field.

A high board fence has been constructed around the entire field, the lines for same being furnished by this department.

NEW PUBLIC BUILDINGS

At the site of the New Public Library, lines and grades were furnished for certain purposes in connection with the construction.

Surveys, plans, levels, cross-sections and general information were made and furnished to the commission appointed for building the new schoolhouse in Ward One.

The building was also laid out by this department, and several lines and grades furnished the contractor for building purposes.

MISCELLANEOUS WORK

All the index files have been kept up-to-date. This necessitates a great deal of office work in connection with plans, note-books, deed-books, assessments, etc., but the time spent in maintaining a system of this nature is money saved.

A plan of land belonging to the heirs of John I. Baker at the junction of Lovett and Hale Streets was made in connection with the transfer of this land to the city.

At the Hardie School Building, lines and grades were given for a concrete retaining wall.

A survey and plan was made of the siphon of the water-main across Bass River on Bridge Street. This was in connection with a hearing held before the Land and Harbor Commissioners.

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A plan of the water-shed of Wenham Lake was made for the Water Board in connection with the water supply question.

Several plans of land, filed at the Registry of Deeds, have been copied and filed in this office for reference.

STREET DEPARTMENT

The following work has been done for the Street Department and Committee on Streets outside of the larger items which are reported elsewhere.

An estimated cost was made for smooth-paving Water Street between Cabot and Lothrop Streets, together with a system of surface drains, curb-stone and one gravel sidewalk.

Grades were furnished for lowering the gutters on Corning Street near Hale Street, Cabot Street between Charnock and Elliott Streets and Hart Street near Greenwood Avenue.

Profiles and cross-sections were taken and grades established and furnished for the macadamizing of River Street between Pleasant and Bridge Streets, Ocean Street the entire length, and all of Depot Square.

Profiles were taken and grades furnished for the construction of gravel sidewalks on Raymond and Arlington Avenues.

Lines were furnished the entire length of Livingston Avenue for the construction of this street.

During the year fourteen street lines were furnished abuttors on various streets.

Grades were furnished for the filling of Baker and Grant Streets. This was in accordance with an agreement made between the city and Mr. J. L. Simon.

SURFACE DRAINS

This department made all surveys, took all levels, established grades and gave all lines and grades for surface drains, in the following streets:

Hale Street between Corning and Cross Streets.
Bennett Street through private land.
Cabot Street between Mason and Lyman Streets.
Mechanic Street between West Dane and dead end.
West Dane Street between Chase and Mechanic Streets.
Greenwood Avenue between the brook and Hart Street.

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STANDLEY STREET

A survey was made of the entire length of this street. It was made for the purpose of estimating the cost of reconstructing and straightening this street, all in accordance with a petition from the abuttors. A plan was made, showing the proposed changes in the alignment of the street, and a hearing was held on the plan. Due to the excessive prices demanded by some of the abuttors for land taken, it was found to be too expensive, so no work was accomplished in the way of construction. All plans and profiles are on file in this office, and can be used at any time in the future when this reconstruction is undertaken.

UNDER-GROUND WIRES

Chapter 267 of the Acts of 1911, which is an act relative to underground appliances in this city, required the City Engineer to approve all plans and maps, showing the proposed locations of conduits and cables of any corporation, previous to construction.

During the year 1912, which is the first year that this act has been in force, the City Engineer has approved plans for the following corporations on the following streets.

For the Beverly Gas and Electric Company:

Cabot St. (Essex Bridge to Herrick St.)	10 plans
Bow St. (Cabot St. to Rantoul St.)	2 plans
Stone St. (Cabot St. to Lothrop St.)	2 plans
Bartlett St. (Cabot St. to Stone St.)	1 plan
Washington St. (Cabot St. to Lothrop St.)	2 plans
Thorndike St. (Cabot St. to Lothrop St.)	2 plans
Abbott St. (Cabot St. to Lothrop St.)	2 plans
Monument Sq.	1 plan
Hale St. (Cabot St. to East Corning St.)	6 plans
Essex St. (Cabot St. to Peabody Ave.)	3 plans
Knowlton St. (Cabot St. to Dane St.)	1 plan
Dane St. (Cabot St. to Lothrop St.)	3 plans
Ober St. (Hale St. to the shore)	3 plans
Neptune St. (Ober St. to Corning St.)	1 plan
Pond St. (Cabot St. to Rantoul St.)	2 plans
Central St. (Cabot St. to Lothrop St.)	2 plans

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Atlantic Ave. (Hale St. to Lothrop St.)	1 plan
Lothrop St. (Stone St. to Hale St.)	4 plans
Lovett St. (Bartlett St. to Ocean St.)	3 plans
West Dane St. (Cabot St. to Rantoul St.)	1 plan
Judson St. (entire length)	1 plan
Roundy St. (entire length)	1 plan
Winter St. (entire length)	1 plan

For the Bay State Street Railway Company:

Cabot St. (Essex Bridge to Herrick St.)

For The New England Telephone and Telegraph Company:

Stone St. (Cabot St. to Lothrop St.)
Thorndike St. (Cabot St. to Lothrop St.)
Abbott St. (Cabot St. to Lothrop St.)
Central St. (Cabot St. to Lothrop St.)

SEWERS

The following table shows the sewers constructed during 1912. This department was required to make all surveys, take all profiles and levels, make the designs and specifications, give lines and grades for their construction. In addition to this, measurements were taken and estimates certified to for payments to the contractors.

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Sewers Constructed in 1912

STREET	FROM	TO	Size of Pipe	Length lin. ft.	No. Conn.	Length Conn.
Appleton Ave.	Harrison Ave.	Dead end	8 in.	250.0	4	117.5
Arthur St. Ext.	Mulberry St.	Dead end	8 in.	300.4	5	86.5
Agate St.	Linden Ave.	Dead end	8 in.	325.0	15	360.0
Arlington Ct.	Right of Way	Dead end	8 in.	50.0	1	13.0
Boyden Ave.	Whitney Ave.	Dead end	8 in.	113.6	1	24.0
Butman St. Ext.	Bisson St.	James St.			18	489.0
Bosworth St.	Balch St.	Balch St.	8 in.	834.4	28	632.0
Baker Ave.	Odell Ave.	Boyden Ave.	8 in.	706.7	21	627.8
Bertram St.	Odell Ave.	Essex St.	10 in.	1121.3	37	872.0
Cox Ct.	School St.	Dead end	8 in.	123.4	5	122.5
Chapman Terrace	Chapman St.	Dead end	8 in.	185.3	1	20.0
Colon St.	Heather St.	Brimbal Ave.	12 in.	2172.3	64	1711.0
Cliff St.	Porter St.	Dead end	8 in.	444.6	13	326.0
County Way	Elliott St.	Bridge St.	10 and 8 in.	1458.6	46	1816.8
Ellingwood Ct.	Cabot St.	Dead end	8 in.	146.0	1	12.0
Essex St.	Bertram St.	Spring St.	10 in.	1207.8	36	1147.7
Elliott St.	0 plus 71.8	12 plus 50	20 and 18 in.	1178.2	0	
Echo Ave.	Elliott St.	Dead end	8 in.	500.0	8	183.5
Flint St.	Highland Ave.	Dead end	8 in.	214.6	3	51.0
Giddings Ave.	Dead end	Dead end	8 in.	165.0	6	160.0
Giles Ave.	2 plus 50	Stewart Ave.	8 in.	494 3	13	293 0
Hawthorne St.	Odell Ave.	Dead end	8 in.	300.0	4	98 0
Hillside Ave.	1 plus 50	Dead end	8 in.	250 0	8	163.8
Jasper St.	Linden Ave.	Cliff St.	8 in.	367.9	13	315.0
Lothrop St.	Stone St.	Dead end	6 in.	78.0	1	26.0
Lefavour Ave.	Whitney Ave.	Dead end	8 in.	150.5	1	24.0
Lowell St.	Odell Ave.	Essex St.	8 in.	667.5	17	400.0
Linden Ave.	Right of Way	Dead end	8 in.	130.1	1	24.0
Linden Ave.	Right of Way	Jasper St.	10 in.	149.9	5	120.0
McKay St. Ext.	Balch St.	Old Balch St.	8 in.	700.0	10	203.1
Middle St.	Bisson St.	Dead end	12 in.	331.6	1	24.0
Magnolia St.	Odell Ave.	Essex St.	8 in.	509.5	9	230.0
New Balch St.	Balch St.	Old Balch St.	8 in.	1000.0	17	451.6
Odell Ave.	Colon St.	Spring St.	8 and 12 in.	2249.6	33	823.6
Right of Way	River St.	Linden Ave.	12 in.	2081.8	9	182.0
Summit Ave.	Dead end	Dead end	8 in.	574 2	17	311.0
School St.	Cox Ct.	Dead end	8 in.	102.0	2	58.5
Sherman St.	Odell Ave.	Essex St.	8 and 10 in.	896.9	25	572.0
Spring St.	Colon St.	Gloucester B'ch B.&M.R.R.	8 in.	233.6	5	130.0
Spring St.	Odell Ave.	Dead end	8 in.	149.5	1	34.0
Stewart Ave. West	Giles Ave.	Dead end	8 in.	230.6	10	237.5
Stewart Ave. East	Giles Ave.	Dead end	8 in.	367.5	11	254 0
Whitney Ave.	Boyden Ave.	Dead end	8 in.	289.5	1	38.0
Wellman St.	School St.	Dead end	8 in.	182.9	5	135.0
		Total		23,984.6 or 4.543 mi.	532	13,920.4 or 2.636 mi.

Total number of feet of pipe laid by contract equals 37,905.0 linear feet or 7.179 miles.

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The sewer Y books, which contain the locations of all sewer connections, the sewer atlas and all records pertaining to the sewerage system have been kept up-to-date with the progress of the work.

Several sewer connections, not on the streets constructed this year, have been located and grades given for their construction.

The survey for sewers in Rial Side has been completed and a layout made, covering those streets along which the abuttors requested sewers. A large plan has been made from this survey, which shows the whole of Rial Side, and which can be developed as the need of sewers is required.

Along the beach between Dane Street and Andrews Court, nearly all of the abuttors have brought suit against the city for laying the sewer pipe in the beach between high and low water. To defend the city in the suits which are expected to be tried in January of 1913, a special plan has been made, a new profile taken and considerable data looked up. Observations have also been made by this department on the shifting of the beach, tightness of the sewer man-holes, etc., which have been noted and held in readiness for this suit.

SEWER ASSESSMENTS

The following table shows the sewer assessments levied during 1912. This table represents the work involved in making the surveys, computing the assessments and draughting the plans. 655 parcels of land are included in these assessments.

Agate St.	$721 75
Ames St.	377 85
Arthur St. Extension	251 46
Arlington Court	80 63
Appleton Ave.	519 59
Baker Ave.	1,593 81
Boyden Ave.	74 83
Bisson St.	2,046 39
Burton Ave.	609 89
Bosworth St.	2,008 80

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Bertram St.	$2,732 65
Butman St.	1,009 30
Butman St. Extension	1,101 47
Baker St.	823 68
Charles St.	812 21
Chapman St. Terrace	279 47
Colon St.	7,859 72
Cliff St.	625 28
Cox Court	843 05
Dearborn Ave.	720 20
Ellingwood Court	25 35
Essex St.	3,017 81
Flint St.	162 28
Giddings Ave.	547 50
Gage St.	1,216 31
Grant St.	1,438 80
Herrick St.	1,153 85
Hawthorne St.	294 34
Hancock St.	529 20
James St.	128 25
Jackson St.	614 14
Jasper St.	768 19
Lefavour Ave	153 38
Linden Ave.	352 80
Lowell St.	1,239 09
Lothrop St.	93 77
Mason St.	32 38
McKay St.	1,898 30
Magnolia St.	754 18
Mill St.	1,125 29
Middle St.	806 17
New Balch St.	2,504 56
Odell Ave.	2,688 55
Peabody Ave.	1,476 01
Roosevelt Ave.	1,065 13
Right of Way	1,400 30
Story Ave.	567 53
Spring St.	781 64
Sohier Road	1,640 88
Sherman St.	1,910 26

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Simon St.	$39 89	
School St.	156 10	
Summit Ave.	1,093 26	
Whitney Ave.	2,163 62	
Wellman St.	712 37	
Total		$59,643 51

SIDEWALKS

Surveys, plans, layout orders and lines and grades have been made and furnished for sidewalks on the following streets:—No. 4 Lovett Street; No. 6 Bartlett Street; No. 25 School Street; No. 18 School Street; No. 21 and No. 23 Atlantic Avenue; No. 14 Highland Avenue; No. 8 Whitney Avenue; Cabot Street, between Pickett Street and Columbus Avenue; Simon Street, the entire length on both sides; Bow Street, from No. 28 to Rantoul Street; Lyman Street, the entire length on the south side; Thorndike Street, between Endicott and Lovett Streets; Hale Street, abutting land belonging to Andrew W. Rogers; No. 319 Cabot Street; No. 397 to No. 399 Cabot Street; Thorndike Street, Cabot Street to Brown Street; Myrtle Street, abutting land belonging to Caleb Cole; Broadway, abutting land belonging to Walter Perry; West Dane Street, from Cabot Street to No. 8; Elliott Street, from No. 44 to Beckford Street; Hale Street, from Haskell Street to West Street; Hale Street, abutting land belonging to John Wyatt; Whitney Avenue, on both sides between Odell Avenue and Giddings Avenue.

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The following measurements have been taken and certified to, for assessment purposes and payments to contractors.

Location	Brick Walks Sq. Yds.	Granite Curbing Lin. Ft.	Granolithic Walk Sq. Yds.	Granolithic Curbing Lin. Ft.
Atlantic Ave.	107.0	137.0	.....	.....
Bartlett St.	36.7	49.2	.....	.....
Broadway.	.....	.....	255.8	.....
Bow St.	608.7	788.1	.....	.....
Cabot St.	1,992.9	391.4	287.8	.....
Charnock St.	.....	131.2	.....	.....
Elliott St.	.....	301.5	.....	.....
Hale St.	.....	1,915.4	293.0	293.9
Haskell St.	.....	211.7	.....	.....
Highland Ave.	.....	.....	35.0	.....
Lovett St.	97.0	64.4	.....	.....
Lyman St.	532.9	754.7	.....	.....
Myrtle St.	44.6	.....	.....	.....
Pierce Ave.	68.7	.....	.....	.....
School St.	96.0	202.0	.....	.....
Simon St.	1,053.2	1,476.5	.....	.....
Thorndike St.	326.5	.....	540.4	.....
Whitney Ave.	56.7	794.4	.....	.....
West Dane St.	.....	193.2	.....	.....
Winthrop Ave.	.....	154.6	.....	.....
West St.	.....	30.2	.....	.....
Washington St	74.7	45.0	.....	.....
Total.	5,095.6	7,640.5	1,412.0	293.9

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The following table shows the side-walk assessments levied during 1912. This table represents the work involved in making the surveys, computing the assessments and draughting the plans. Seventy-four parcels of land are included in these assessments.

Atlantic Ave.	$120 87	
Bow St.	716 24	
Bartlett St.	42 53	
Cabot St.	379 26	
Highland Ave.	60 61	
Lovett St.	47 89	
Lyman St.	625 45	
Myrtle St.	52 26	
Pierce Ave.	85 91	
School St.	110 85	
Thorndike St.	719 68	
Whitney Ave.	61 78	
Simon St.	1,244 20	
Total		$4,267 53

All the sidewalks were constructed by contract this year, at the following prices:

Curb Stone, furnished and laid per linear foot	$0.71
Brick Walk, furnished and laid per square yard	1.35
Granolithic Walk, furnished and laid per square yard	1.89

OFFICE EQUIPMENT

Following is a list of property under my charge:

Four 100-foot tapes, five plumb-bobs, five yards tracing cloth, two yards egg-shell paper, eight celluloid triangles, one steel straight-edge, two triangular engineer's scales, two pairs rubber boots, three arm chairs, two blue-print frames, two draughting tables complete, one drawing board, two 12-foot Philadelphia Self-reading rods, one 12-foot stadia rod, one 13-foot Philadelphia Self-reading rod, one Buff and Buff transit No. 3746, one Buff and Buff level No. 3726, 100 stakes, 100 slats, two leather tool-bags, one dozen surveyors pins, one pick, two hatchets, one air-tight

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blue-print jar, five yards tracing paper, one roll blue-print paper, one card index and filing cabinet, one oak roll-top desk, one desk chair, one filing cabinet for plans, one type-writing desk, one book-case, one Coradi Planimeter, one book entitled "Boundary Lines of Beverly," one Walker's Atlas, one yard of profile paper, three yards of profile tracing cloth, one rack for plans, one step-ladder, one hammer, three dozen pencils, one tape-mending outfit, 500 filing cards, one hat rack, type-writer supplies, drawing supplies, one horse, one four-seated Beverly Wagon, two blankets, one harness.

CONCLUSION

In closing, I take this opportunity to thank the Mayor and Board of Aldermen, and the various departments and committees, for their kindness and courtesy to me at all times during the year, and respectfully submit this, the sixteenth annual report of the City Engineer's Department, which is the sixth annual report under my administration.

HARRIE L. WHITNEY,

City Engineer.

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FIRST ANNUAL REPORT

OF THE

COMMISSIONER

OF

UNDERGROUND WIRES

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 10, 1913.

Received, read by its title, and referred to the Standing Committee on Accounts and Printing for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 245, 1913

REPORT OF THE COMMISSIONER OF UNDERGROUND WIRES

MARCH 5, 1913.

To His Honor, the Mayor, and Board of Aldermen:

GENTLEMEN:—I have the honor of submitting the following report of the Commissioner of Underground Wires and Conduits for the year ending December 31, 1912. It shows the nature of my duties, and the work accomplished during the year.

The Act under which this work has been authorized is Chapter 267 of the Acts of 1911. While it does not require any report to be made to the City Government, or any other legislative body, I think it is a matter of sufficient importance to bring before the public.

The Act requires that certain streets shall be cleared of all wires, poles, cables and electric appliances, which shall be placed, operated and maintained underground, the exclusive authority being vested in a commissioner who shall cause this to be accomplished. He is to prescribe certain streets each year in January and is given ten years in which to have all the streets prescribed in the Act cleared. The commissioner has the exclusive authority in granting necessary permits for the placing of wires and cables underground to the various corporations, and it is his duty to see that this is done.

The work this year has been with three public service corporations, namely: Beverly Gas and Electric Company, Bay State Street Railway Company, and New England Telephone and Telegraph Company.

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WARD TWO

Number of	polls assessed April 1, 1912	872
"	houses assessed to residents	490¼
"	horses assessed to residents	89
"	cows assessed to residents	19
"	individuals assessed on property	329
"	individuals assessed on poll only	651
"	all others assessed on property	113

Valuation of buildings assessed to residents	$1,369,925 00
" land assessed to residents	1,093,175 00
" personal property assessed to residents	696,400 00
Total of real and personal property	$3,159,500 00

WARD THREE

Number of	polls assessed April 1, 1912	1,112
"	houses assessed to residents	418½
"	horses assessed to residents	95
"	cows assessed to residents	2
"	individuals assessed on property;	298
"	individuals assessed on poll only	922
"	all others assessed on property	102

Valuation of buildings assessed to residents	$1,217,100 00
" land assessed to residents	487,825 00
" personal property assessed to residents	639,700 00
Total of real and personal property	$2,344,625 00

WARD FOUR

Number of	polls assessed April 1, 1912	1,167
"	houses assessed to residents	740¼
"	horses assessed to residents	108
"	cows assessed to residents	45
"	individuals assessed on property	550
"	individuals assessed on poll only	809
"	all others assessed on property	131

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Valuation of buildings assessed to residents	$1,811,300 00
" land assessed to residents	1,623,150 00
" personal property assessed to residents	8,257,750 00
Total of real and personal property	$11,692,200 00

WARD FIVE

Number of polls assessed April 1, 1912	1,084
" houses assessed to residents	434½
" horses assessed to residents	160
" cows assessed to residents	213
" individuals assessed on property	363
" individuals assessed on poll only	836
" all others assessed on property	43

Valuation of buildings assessed to residents	$1,905,000 00
" land assessed to residents	487,650 00
" personal property assessed to residents	862,025 00
Total of real and personal property	$3,254,675 00

WARD SIX

Number of polls assessed April 1, 1912	496
" houses assessed to residents	307
" horses assessed to residents	217
" cows assessed to residents	51
" individuals assessed on property	224
" individuals assessed on poll only	343
" all others assessed on property	115

Valuation of buildings assessed to residents	$1,213,300 00
" land assessed to residents	1,280,900 00
" personal property assessed to residents	4,715,475 00
Total of real and personal property	$7,209,675 00

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NON-RESIDENTS

Number of	houses assessed April 1, 1912 ..	651
"	horses assessed April 1, 1912...	87
"	cows assessed April 1, 1912....	45
"	individuals assessed on property,	464
"	all others assessed on property..	105

Valuation of buildings assessed to non-residents ...	$3,843,275 00
" land assessed to non-residents.....	3,825,175 00
" personal property assessed to non-residents.....	375,975 00
Total of real and personal property	$8,044,425 00

TOTAL NUMBER OF ASSESSMENTS APRIL 1, 1912

Polls	6,133
Houses	3,761
Horses	935
Cows	400
Neat cattle other than cows	4
Swine	250
Fowl	100
Individuals assessed on property	2,800
All others assessed on property	709
Assessed on poll only	4,564
Number of acres of land assessed	8,421

TOTAL VALUATION ASSESSED APRIL 1, 1912

Buildings	$12,992,325 00
Land	9,484,650 00
Personal	16,276,050 00
Resident Bank Shares	252,315 00
Added, Building and Land	1,225 00
Buildings assessed December 20, 1912	11,125 00
Land assessed December 20, 1912	8,850 00
Personal assessed December 20, 1912	44,125 00
Total valuation of real and personal.....	$39,470,665 00

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Taxes levied on real estate	$337,472 62½
Taxes levied on personal estate	254,587 35
Taxes levied on polls April 1st	12,266 00
Taxes levied on polls after April 1st	164 00
Total taxes levied on real, personal and polls	$604,489 97½

OTHER ASSESSMENTS

Street watering tax	$1,912 83
Extermination of Gypsy and Brown Tail Moths	1,947 71
Bay State Street Railway Tax	3,398 32
City of Salem, special tax	74 62½
Non-resident Bank Tax	2,290 27½
Sewer assessments	5,988 26
Interest on sewer assessments	1,399 75
Total special assessments	$17,011 77
Total amount of taxes from all sources	$621,501 74½

We have given our warrants to the Collector to collect said sum of $621,501.74½ for the following purposes, as per warrants received by us and by votes of the City Council.

For City purposes	$489,739 87
For County tax	50,784 95
For State tax	55,500 00
For State Highway tax	284 00
For Overlay	1,037 28
For street watering	1,912 83
For extermination of Gipsy and Brown Tail Moths.	1,947 71
For Non-residents Bank Tax	2,290 27½
For special tax from City of Salem	74 62½
For special tax from Bay State Street Railway Co.	3,398 32
For added list, city purposes	172 37½
For added list, city purposes	6,971 50
For sewer purposes	5,988 26
For sewer purposes, interest	1,399 75
Total	$621,501 74½

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The following abatements were made during the year 1912, for the years specified.

ON REAL, PERSONAL AND POLLS

1905	$16 67	
1906	1,521 72	
1907	1,513 69	
1908	2,385 08½	
1909	149 09½	
1910	32,543 12	
1911	1,370 99	
1912	3,742 59½	
		$44,242 96½

1907, street watering	$0 90	
1911, street watering	3 92	
1912, street watering	13 34	
		$18 16

1909, extermination of gipsy and brown-tail moths	$1 12	
1910, extermination of gipsy and brown-tail moths	84	
1912, extermination of gipsy and brown-tail moths	9 83	
		$11 79

1911, sidewalks	$42 88

1909, sewers	$33 02	
1910, sewers	27 85	
1911, sewers	40 32	
1912, sewers	37 72	
		$138 91

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Total abatements made in 1912 for the preceding years, 1905 to, and including, 1912.

On real, personal and polls	$44,242	96½
On street watering	18	16
On gipsy and brown-tail moths	11	79
On sidewalks	42	88
On sewers	138	91
Total abatements	$44,454	70½

THEODORE A. HOLMES,

CHARLES E. RIVA,

JOHN M. MURNEY,

Assessors of Beverly.

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY COLLECTOR

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 10, 1913.

Received, read by its title and referred to the Standing Committee on Finance and Appropriations and Bonds, and the City Auditor.

LUTHER S. HERRICK, *Clerk.*

IN BOARD OF ALDERMEN

MARCH 17, 1913.

Report referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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REPORT OF CITY COLLECTOR

To His Honor, the Mayor, and Board of Aldermen:

In presenting the eighteenth annual report of the collections, abatements and outstanding taxes to January 1, 1913, the Collector would call your attention to the marked decrease of uncollected taxes, also the closing up of several of the back years, thus complying with the new State law, which demands the Collectors to keep within the three-year limit. The total receipt of taxes back of 1912 collected in the year 1912, $88,806.63. Total receipt of taxes for the year 1912, from September 19, 1912, to January 1, 1913, $507,502.61, an increase over last year of $10,296.00 for the current year.

Your Collector would also call the attention of the tax-payers to the new State law, enacted by the Legislature this fall, which demands the Collector to make a more complete balancing of the delinquent taxes of the previous years to within the stated time, making the Collector personally responsible for the amount of all warrants tendered him by the Board of Assessors, the penalty for which is a personal suit by the Attorney General of the State, to the Collector and his bondsmen, if the law is not complied with.

The special State Committee on Finance, which has thoroughly investigated the conditions and finances of all cities and towns in the State, at their recess session, will bring a recommendation before the present Legislature that the collection of taxes commencing the year 1915 shall be collected in full during the year for which the warrant was issued. In order to meet this requirement the tax-payer will readily see that provisions must be made before hand, to be prepared to comply with the law, which is certainly imperative. The day for long tax accounts has evidently gone by, and the people must govern themselves accordingly.

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RECAPITULATION OF TAXES FOR THE YEAR 1905

Total cash collections.	$360,127 13	
Total abatements....	5,436 25	
		$365,563 38
Original warrant given the Collector, including State, County and City taxes; Sidewalk, Street Watering, Non-resident Bank tax and Excise tax.....	$365,423 26	
Additional warrant....	140 12	
		$365,563 38

Showing the taxes for the year 1905 as fully collected and abated.

RECAPITULATION OF TAXES FOR THE YEAR 1906

Total cash collections.	$430,889 77	
Total abatements....	7,264 94½	
		$438,154 71½
Original warrant given the Collector, including State, County and City Taxes; Sidewalk, Street Watering, Non-resident Bank tax and Excise tax.....	$436,575 77	
Additional warrant....	1,578 94½	
		$438,154 71½

Showing the taxes for the year 1906 as fully collected and abated.

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RECAPITULATION OF TAXES FOR THE YEAR 1907

Total cash collections.	$432,963 91	
Total abatements....	5,587 06	
		$438,550 97
Original warrant given the Collector, including State, County and City taxes; Sidewalk, Street Watering, Non-resident Bank tax and Excise tax.....	$437,589 64	
Additional warrant....	983 38	
	$438,573 02	
Less error in warrant..	22 05	
		$438,550 97

Showing the taxes for the year 1907 as fully collected and abated.

The taxes for the years 1908 and 1909 are all collected and ready for verification.

COLLECTED ON ACCOUNT OF TAXES FOR THE YEAR 1910

Total cash collected...	$24,687 14	
Abated to Jan. 1, 1913,	32,535 52	
Total cash and abatements.....		$57,222 66
Bal. of 1910 uncollected Jan. 1, 1912.....	$67,141 73	
Collected and abated in 1912.....	57,222 66	
Bal. uncollected Jan. 1, 1913.....		$9,919 07

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COLLECTED ON ACCOUNT OF TAXES FOR THE YEAR 1911

Total cash collected ..	$59,136 82	
Abated to Jan. 1, 1913	1,370 99	
Total cash and abatements.....		$60,507 81
Bal. of 1911 uncollected Jan. 1, 1912.....	$97,326 94½	
Collected and abated in 1912.....	60,507 81	
Bal. uncollected Jan. 1, 1913.....		$36,819 13½

COLLECTED ON ACCOUNT OF TAXES FOR THE YEAR 1912

Total cash collected ..	$507,502 61	
Abated.....	3,765 18½	
Total cash and abatements.....	$511,267 79½	
Amount of Warrant given the Collector for taxes of 1912 is as follows:		
City tax.....	$489,739 87½	
County tax.....	50,784 95	
State tax.....	55,500 00	
Highway tax.....	284 00	
Street Watering tax..	1,912 83	
Moth tax.....	1,947 71	
Non-resident Bank tax	2,290 27½	
City of Salem Statute tax.....	74 62½	
Bay State Street Ry. Co. Excise tax.....	3,398 32	
Overlay.....	3,327 55½	
Additional warrant...	172 37½	
Additional warrant...	6,971 50	
Total.....	$616,404 01½	

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Collected and abated in 1912	$511,267 79½	
Bal. uncollected Jan. 1, 1913		$105,136 22

RECAPITULATION OF SEWER TAX FOR THE YEAR 1905

Total cash collected	$16,277 95	
Total sewer interest	995 63	
Total abatements	67 13	
		$17,340 71
Original warrant given the Collector including sewer tax and interest	$8,044 91	
Additional warrants	9,295 80	
		$17,340 71

Showing the sewer tax for the year 1905 as fully collected and abated.

RECAPITULATION OF SEWER TAX FOR THE YEAR 1906

Total cash collected	$26,301 96	
Total sewer interest	1,608 61	
Total abatements	1,289 37	
		$29,199 94
Original warrant given the Collector including sewer tax and interest	$5,559 96	
Additional warrants	23,639 98	
		$29,199 94

Showing the sewer tax for the year 1906 as fully collected and abated.

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RECAPITULATION OF SEWER TAX FOR THE YEAR 1907

Total cash collected ..	$17,040 57	
Total sewer interest ..	1,402 68	
Total abatements....	5,884 73	
		$24,327 98

Original warrant given the Collector including sewer tax and interest.....	$3,166 86	
Additional warrants...	21,161 12	
		$24,327 98

Showing the sewer tax for the year 1907 as fully collected and abated.

The sewer taxes for the years 1908 and 1909 are all collected and ready for verification.

COLLECTED ON ACCOUNT OF SEWER TAX FOR THE YEAR 1910

Total cash collected ...	$692 10	
Total sewer interest ...	201 90	
Total abatements.....	27 85	
Total cash and abatements.....		$921 85
Bal. uncollected Jan. 1, 1912.....	$3,709 31	
Collected and abated in 1912.....	921 85	
Bal. uncollected Jan. 1, 1913.....		$2,787 46

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COLLECTED ON ACCOUNT OF SEWER TAX FOR THE YEAR 1911

Total cash collected ...	$3,802 54		
Total sewer interest ...	410 96		
Total abatements.....	40 34		
Total cash and abatements.....		$4,253 84	
Bal. uncollected Jan 1, 1912.....	$9,122 81		
Additional warrant....	23 30		
	$9,146 11		
Collected and abated in 1912.....	$4,253 84		
Bal. uncollected Jan. 1, 1913.....			$4,892 27

COLLECTED ON ACCOUNT OF SEWER TAX FOR THE YEAR 1912

Total cash collected ...	$2,465 83		
Total sewer interest ...	624 72		
Total abatements	37 87		
Total cash and abatements.....		$3,128 42	
The amount of warrant given the Collector by the Assessors for sewer tax for the year 1912 was	$7,388 01		
Collected and abated in 1912.....	3,128 42		
Bal. uncollected Jan. 1, 1913.....			$4,259 59

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Interest collected on taxes during the year 1912	$4,614 90
Interest collected on sewer taxes during the year 1912,	1,320 73
Cash collected on sewer taxes during the year 1912 ..	7,415 47
Cash collected on regular taxes back of 1912.....	88,806 63
Cash collected from Sept. 19, 1912, to Jan. 1, 1913, on taxes for the year 1912	507,502 61
Office fees.....	130 00
Total cash collected during the year 1912	$609,790 34

Respectfully submitted,

ANDREW S. EDWARDS,

Tax Collector.

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TAXES

Year	Balance Jan. 1, 1912	Committed	Total Charged	Collected and paid City Treasurer	Abated and Canceled	Total Credits	Balance Jan. 1, 1913	Year
1905	$1,605 10	.....	$1,605 10	$48 35	$1,556 75	$1,605 10	.....	1905
1906	1,962 01	$158 05	2,120 06	605 44	1,514 62	2,120 06	.....	1906
1907	1,839 73½	269 05	2,108 78½	578 43	1,532 35½	2,110 78½	.....	1907
1910	67,141 73	.....	67,141 73	24,687 14	32,535 52	57,222 66	$9,919 07	1910
1911	97,326 94½	.....	97,326 94½	59,136 82	1,370 99	60,507 81	36,819 13½	1911
1912	.....	616,404 01½	616,404 01½	507,502 61	3,765 18½	511,267 79½	105,136 22	1912
Total	$169,875 52	$616,831 11½	$786,706 63½	$592,558 79	$42,275 42	$634,834 21	$151,874 42½	
				SEWER TAXES				
1905	$9 94	$36 66	$46 60	$45 76	$0 84	$46 60	.....	1905
1906	34 52	10 90	45 42	45 42	.....	45 42	.....	1906
1907	71 49	35 85	107 34	107 34	.....	107 34	.....	1907
1910	3,709 31	.....	3,709 31	894 00	27 85	921 85	$2,787 46	1910
1911	9,122 81	23 30	9,146 11	4,213 50	40 34	4,253 84	4,892 27	1911
1912	7,388 01	.....	7,388 01	3,090 55	37 87	3,128 42	4,259 59	1912
Total	$20,336 08	$106 71	$20,442 79	$8,396 57	$106 90	$8,503 47	$11,939 32	

MARCH 15, 1913.

Examined and approved as correct to the best of our knowledge and belief.

HENRY S. PARKER, *City Auditor.*
WILLARD O. WYLIE,
MARTIN R. LANE,
JOHN B. GOLDSMITH,
Committee on Finance and Appropriations.

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EIGHTEENTH ANNUAL REPORT

OF THE

WATER BOARD

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 24, 1913.

Received, read by its title and referred to the Standing Committee on Finance and Appropriations, and the City Auditor.

LUTHER S. HERRICK, *Clerk.*

IN BOARD OF ALDERMEN

APRIL 14, 1913.

Referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 275, 1913

REPORT OF THE BEVERLY WATER BOARD

BEVERLY, MASS., March 25, 1913.

To His Honor, the Mayor, and the City Council of the City of Beverly:

GENTLEMEN:—The Water Commissioners respectfully submit the following as their report for the year ending December 31, 1912, together with the reports of the Clerk and the Superintendent of our Department, to which you may refer for details.

THE WATER SITUATION IN GENERAL

The agitation for an increased water supply for the city of Beverly began in January, 1910, at which time an order was introduced in the Beverly City Council, calling for the appointment of a special committee to be made up of the Mayor, one Alderman, two Councilmen, and a member of the Water Commission, who were to consult with a duly authorized committee in Salem, and see what steps should be taken towards increasing the supply for both cities.

In the course of a few weeks the City Government of Salem appointed a committee, consisting of the Mayor, two Aldermen and three Councilmen, to consult with the Beverly Committee, and during the course of the spring and summer these two committees held a number of joint meetings, in which the question of an increased water supply was discussed.

During the summer of 1910, it was decided to engage Mr. William S. Johnson of Boston, as Consulting Engineer, and Mr.

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Johnson was directed to go over the situation as fully as possible, and report back his findings to the cities of Beverly and Salem prior to January 1, 1911.

Mr. Johnson's report was rendered on December 24, 1910, and after going into the matter of present supplies and possible sources of future supply, he recommended that water be taken from the Ipswich River at a point in Topsfield and pumped into the northerly end of Wenham Lake, as an additional supply for the cities of Salem and Beverly. He estimated that the costs of works for taking 5,000,000 gallons per day should not exceed $100,000, and stated that the two cities would then be provided with an ample supply of water sufficient for an indefinite time in the future.

This report was rendered so late in the year that the outgoing city governments were unable to act upon it, and the matter was referred to the city governments of the respective cities which took office during the first week in January, 1911. After a slight delay committees were appointed by the respective cities to consider Engineer Johnson's report, and a meeting of these committees was held at which it was decided to leave the drafting of a bill embodying Mr. Johnson's recommendations to the City Solicitors of Beverly and Salem. As soon as completed this bill was filed at the State House, but in view of the fact that the bill was filed after the regular time for filing bills had expired, the question of its admittance to the Legislature had to be considered by the Committee on Rules. Several protracted hearings were held by this Committee, during which great opposition to the admission of the bill developed from the Ipswich River valley towns and from the Ipswich Mills. The result was that the Committee on Rules decided not to admit the bill for consideration of the Legislature of 1911.

The town of Peabody also came before the Committee on Rules, seeking admission of a bill permitting them to take water from the Ipswich River, and this bill met the same opposition and suffered the same fate.

A resolve was then introduced into the Legislature, which received executive approval on April 14, 1911, calling for an investigation by the State Board of Health relative to additional water supplies for the cities of Salem and Beverly and the town of Peabody to be taken from the Ipswich River, or any part of its

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tributaries, or from such other source or sources as the said Board might find available for the purpose. The Board was called upon to make a preliminary report on the question to the General Court on or before May 15, 1911, making its final report on or before the 10th day of January, 1912. So little time was left for the making of the preliminary report that the matter was not gone into in much detail, and no action was taken on the subject by the Legislature of 1911. The final report on the subject was rendered by the State Board of Health in January, 1912, after they had given the question serious consideration, and after a number of public hearings had been held.

During the summer of 1911 public opinion in Beverly became very strong to the effect that the cities of Beverly and Salem should cease to maintain a water supply in common, and it was plainly the sentiment of the citizens that Beverly should be given the entire use of Wenham Lake, except for such water as might be needed by the town of Wenham. It was felt that in view of the fact that the Lake is entirely situated within the boundaries of Beverly and Wenham that this was the logical solution of the question. It was thought that Wenham Lake, together with the Longham Meadow supply was no longer sufficient for Beverly and Salem together, and that it was not only fair but equitable that Salem should seek a water supply elsewhere, receiving from Beverly a compensation for whatever rights she might possess in Wenham Lake. This solution of the question was advanced at hearings held before the State Board of Health, and when that Board finally reported, it was to the effect that it would be inexpedient for Beverly and Salem to develop existing local water supplies, as such developments would not be of a lasting character, and suggested that Beverly purchase Salem's rights in Wenham Lake and its tributaries, and that Salem should secure a water supply from the Metropolitan System. Beverly drew up a bill which was largely based on the suggestions contained in this report, and it was duly filed and referred to the Committee on Water Supply of the Legislature of 1912.

The city of Salem was very much dissatisfied with the report of the State Board of Health, and engaged Engineer William S. Johnson to look up some other solution of the question in her behalf. Mr. Johnson at once took up the subject, and after a hurried examination came to the conclusion that the best solution

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of the matter would be to create a storage reservoir in Danvers into which the water of the Ipswich River could be pumped and stored, and from there flow by gravity to Wenham Lake for the joint use of Salem and Beverly. In connection with this scheme it was proposed to filter the water several times before it actually went into consumption, and estimates on the cost of this plan ran from about $1,000,000 to $1,200,000. A bill, embodying the ideas of Engineer Johnson, was filed by the city of Salem in the Legislature of 1912, and referred to the Committee on Water Supply, and hearings on the various bills were duly held, at which Beverly was represented by George W. Anderson as counsel, and George A. Kimball as Consulting Engineer, while Salem was represented by Charles F. Choate, Charles S. Baxter and Forrest L. Evans, as special counsel, and William S. Johnson, as Consulting Engineer.

After considering the matter at great length, the Committee on Water Supply decided that the whole question required further investigation, so that bills introduced by Beverly and Salem were referred to the next General Court. The following resolve was introduced and duly passed:

Resolves, 1912—Chapter 85

RESOLVE TO PROVIDE FOR INVESTIGATING THE MATTER OF A WATER SUPPLY FOR THE CITIES OF SALEM, BEVERLY AND WOBURN, AND FOR CERTAIN TOWNS

Resolved, That the governor, with the advice and consent of the council, shall, within thirty days after the passage of this resolve, appoint a commission of three persons, citizens of the Commonwealth, to investigate the matter of a water supply for the cities of Salem, Beverly and Woburn, and for the towns of Burlington, Billerica, Tewksbury, Wilmington, Reading, North Reading, Andover, North Andover, Lynnfield, Middleton, Peabody, Danvers, Wenham, Hamilton, Topsfield, Boxford, Georgetown, Ipswich and Rowley. The commission shall determine upon the best method of supplying the said municipalities with

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water and of protecting the purity of the water, and if it recommends that two or more municipalities shall take water from one source, it shall assign to each its place of taking, and the amount to be taken, and the time during which it shall be taken. The commission shall make such surveys as may be necessary to determine upon sites suitable for reservoirs, filter-beds and other necessary structures, and shall consider the expediency of including one or more of the said municipalities within the metropolitan water supply system. The commission shall also consider the advisability of separate water supplies for the cities of Salem and Beverly, one to be taken from Wenham Lake, and if this plan shall be recommended, the commission shall report a scheme for carrying it into effect. The commission shall give public hearings in such places and after such notice as it may deem expedient, and may employ such engineers and other assistants, and may incur such expense as may be necessary to carry out the provisions of this resolve and as may be approved by the governor and council. The commission shall report to the general court on or before the second Wednesday in January in the year nineteen hundred and thirteen, and shall include in its report such information as it has obtained upon the subject through legislative hearings and otherwise, and drafts of any legislation which it may deem expedient to carry out its recommendations. The members of the commission shall receive such compensation as may be fixed by the governor and council.

Approved April 29, 1912.

Governor Foss, thereupon appointed the following Commission: Thomas W. Proctor, chairman, John F. McDonald and Charles R. Gow, who employed Guy C. Emerson as their Engineer, and J. Murray Cox as secretary.

This Commission held numerous hearings, and during the fall of 1912, made an informal preliminary report which substantially confirmed the report of the State Board of Health, to the effect that Beverly should have Wenham Lake, and that Salem should seek a water supply from the Metropolitan System. The final report of the Special Commission is to be rendered to the Legislature of 1913 on or before January 10th.

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PUMPING STATION

In the early part of the year two independent air pumps were installed, one on each of the two pumping engines. These pumps take the place of the old air pumps and condensers which were directly connected with the main pumps, and which could only be operated when the main pumps were running. The new air pumps being entirely separate from the main pumps, can be started first and sufficient vacuum obtained, so that when the main pumps are started, both the high and the low pistons are doing practically the same amount of work. This one feature alone saves an immense amount of wear and tear on the pumps, which could not be avoided under the old arrangement of air pumps.

During the coming year very few changes are contemplated at the station. The grounds around the pumping station and reservoir have been kept in their usual good condition, and it is the intent of the Board to expend only such sums of money as will maintain the property in a good condition.

METERS

More meters were installed during the past year than in any previous year. Practically all large services in the city proper are now metered, and a large number of the larger services in the Farms district. It has been the policy of the Board in the past to meter all large consumers, those having a 1½-inch service-pipe and larger, as far as the appropriation for meters would allow, and, at the same time, install meters on the larger tenement houses in all parts of the city. At the present time practically all three-family houses and larger, are now metered, and the Board intends to commence installing meters on two-family houses, so far as the meter appropriation will allow, this coming year.

A glance at the Clerk's report will show that the opinion which many hold that meters will decrease our revenue is without a sound basis, as our revenue for not only the last year, but ever since the Board has been installing meters has continued to increase just as steadily as before this practice was instituted.

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AUTO TRUCK

In the early part of the summer, a 1,500 lb. White auto truck with pneumatic tires was purchased by the Department. Up to December 31st of the year the truck has given perfect satisfaction. Not over three changes of tubes has been necessary, and in all the truck has been run about 6,000 miles. We have dispensed with one light team entirely, and have spent nothing for light teaming outside of the Department since the truck has been in use.

We would respectfully recommend that an additional truck of about two tons' capacity be purchased for the use of our Department, as we are entirely satisfied that we can save money by this method of transportation, both in light and heavy teaming.

ACCIDENT INSURANCE

On account of the increased liability placed upon the City by the passing of the Workman's Compensation Act, the Board felt that it was desirable to have all the employees of the Department insured, and as a result, all the employees were insured on the 20th day of November, 1912, for a period of one year from that date.

BRIMBAL AVENUE MAIN

We again urgently recommend the immediate completing of the 24 in. cast-iron main on Brimbal Avenue, from the Reservoir to Colon St., Montserrat. The old 18 in. cement main now in use has been doing service for about thirty years, and is subject to repairs at any time.

Owing to the fact, also, that this main is depended upon almost entirely for supplying the Beverly Farms district and the Cove, and that any leaks or breaks in the same would seriously affect the supply of the entire city proper as well as these two districts, we feel that the importance of this work is very readily apparent, and deserves your prompt consideration.

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COLLECTIONS

In carrying out the usual policy of recent Water Boards, that of collecting all water bills for the current year before the end of that year, we again show a very satisfactory result.

Reference to the Clerk's report shows that from an increased assessment of $4,553.05 over that for last year, the total uncollected accounts from all sources amounts to but $287.33, with the exception of the last quarter's meter assessment, which is not collectable until January 16, 1913. We turned over to the City Treasurer during the year $72,400.

Our present bookkeeping is to be somewhat revised, on account of the taking of a complete inventory of the Department, so as to include a proper depreciation of the water works. It will undoubtedly take the greater part of 1913 to obtain the desired results.

Respectfully submitted,

FRANK WOODBURY, *Chairman*,

ROBERT ROBERTSON,

JOHN J. NUGENT,

Water Commissioners.

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REPORT OF THE CLERK

BEVERLY, MASS., February 10, 1913.

To the Beverly Water Board:

GENTLEMEN:—As required by the City Ordinance, I respectfully submit the following detailed statement showing the assessments, receipts, rebates, abatements and discounts; also the expenditures from the appropriation of this Department for the year ending December 31, 1912.

Cash on hand, January 1, 1912			$75.85
Received for rated water due previous to 1912	$32 88		
Received for metered water due previous to 1912	5,194 32		
Received for pipe and incidentals due previous to 1912	22 71		
		$5,249 91	
Received for rated water assessed in 1912	$44,786 95		
Received for metered water assessed in 1912	21,636 66		
Received for pipe and incidentals assessed in 1912	735 23		
		$67,158 84	
Total collections for the year 1912			$72,408 75
			$72,484 60
Amount paid to City Treasurer in 1912		$72,400 00	
Cash returned to water-takers,			
Overpayments on 1911 metered water assessment	$4 29		
Overpayment on 1912 rated water assessment	92		
		5 21	
Cash on hand, January 1, 1913		79 39	
			$72,484 60

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Amount uncollected January 1, 1912 from accounts previous to 1912....		$6,876 69	
Amount collected of the same in 1912	$5,247 62		
Amount rebated of the same in 1912.....	104 87		
Amount discounted of the same (on metered water bills) in 1912.....	1,518 62		
		$6,871 11	
Total amount uncollected from all sources previous to the assessments of 1912.....			$5 58
Amount uncollected from rated water assessed in 1912.....		$284 71	
Amount uncollected from metered water assessed in 1912.....		10	
Amount uncollected from metered water assessed in 1912, but not collectable until January 16, 1913.....		8,009 99	
Amount uncollected from pipe and incidentals assessed in 1912.....		2 52	
Amount uncollected from all assessments of 1912.....			$8,297 32
Total amount uncollected from all sources, on January 1, 1913.....			$8,302 90
Assessment for rated water for the year ending December 31, 1912.....		$46,148 55	
Assessment for metered water for the year ending December 31, 1912....		36,334 99	
Assessment for pipe and incidentals for the year ending December 31, 1912		745 74	
Total assessment for the year ending December 31, 1912.....			$83,229 28

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Amount rebated from rated water assessed in 1912.	$802 56		
Amount abated from rated water assessed in 1912.	275 25		
Amount discounted from metered water assessed in 1912.....	6,688 24		
Amount rebated from pipe and incidentals assessed in 1912.....	7 99		
Total rebates, abatements and discounts from the assessments of 1912.....		$7,774 04	
Total collections from the assessments of 1912 ...	$67,158 84		
Deduct overpayment made on rated water assessment of 1912.....	92		
		$67,157 92	
Total amount uncollected from the assessments of 1912 (including $8,009 99 not collectable until January 16, 1913).....		8,297 32	
			$83,229 28

RECAPITULATION

Total appropriation for the year 1912.....			$63,024 00
Expended for construction .	$15,000 00		
Expended for new meters ..	4,989 71		
Expended for maintenance	20,000 00		
Expended for salaries.....	6,524 00		
Expended for reconstruction	13,997 64		
Expended for purchase of auto truck.....	2,496 67		
Total expenditures for 1912.....		$63,008 02	

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Unexpended for reconstruction	$2 36		
Unexpended for new meters	10 29		
Unexpended for purchase of auto truck	3 33		
Amount of appropriation unexpended		$15 98	
			$63,024 00

MARCH 31, 1913.

Examined and approved as correct to the best of our knowledge and belief.

WILLARD O. WYLIE,
MARTIN R. LANE,
JOHN B. GOLDSMITH,
Committee on Finance and Appropriations.

HENRY S. PARKER,
City Auditor.

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EXPENDITURES FOR CONSTRUCTION, MAINTENANCE AND RECONSTRUCTION DURING THE YEAR 1912

Construction

New mains	$10,733 95	
New services	3,018 80	
New fountains, hydrants and standpipes	1,245 48	
New meters	1 77	
*New meters, special	4,989 71	
		$19,989 71

Maintenance

Repairs of mains	$1,945 54	
Repairs of services	4,526 91	
Off and on water	263 86	
Repairs of fountains, hydrants and standpipes	505 64	
Repairs of meters	278 55	
Inspecting meters	380 87	
Reservoir, grounds and avenues	830 61	
Team account	1,115 00	
Repairs of steam plant	1,588 12	
Oil and waste	207 87	
Repairs of engineer's dwelling	80 97	
Repairs of pumping station	89 15	
Supplies at pumping station	12 25	
Tools and fixtures, pumping station	21 70	
Specific wages	3,479 25	
Office furniture, books, plans, etc.	976 94	
Inspector's and assistant clerk's salaries	1,000 00	
Telephone account	205 93	
Incidental account	887 89	
Lights, pumping station and shop	241 85	
Tools and fixtures	739 56	
Repairs, workshop and stable	93 76	
Freight and express	257 59	
Boiler insurance	67 50	
Automobile insurance and maintenance	202 69	
*Purchase of motor truck	2,496 67	
		$22,496 67

*Designates a special appropriation for that purpose alone.

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Salaries

General salaries	$6,524 00	
		$6,524 00

Reconstruction

Reconstruction	$13,797 82	
Maintenance	199 82	
		$13,997 64
		$63,008 02

MISCELLANEOUS EXPENDITURES

Adder Machine Co., The	$316 35
Allen, George H.	50
American Express Co.	14 51
Auto List Publishing Co.	10 00
Banker and Tradesman	5 00
Barry, J. J.	1 13
Bay State St. Ry. Co.	10 00
Beverly Co-operative Association	25
Beverly Gas & Electric Co.	253 55
Beverly News Co.	35 69
Beverly Printing Co.	72 00
Beverly Times, The	13 00
Billings, H. W. Co.	11 85
Blackmer, James W.	2,060 45
Blake & Knowles Steam Pump Works	682 40
Bond, Harold L. & Co.	12 65
Boston & Maine Railroad	1,885 59
Brown, C. E.	4 10
Brown, Elatus H.	508 50
Builders Iron Foundry	352 39
Burkhardt, Jacob	151 05
Burnham, O. B.	73 07
Bushek, Henry	5 00
Byers, A. M. Co.	278 15

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Cahill, Edmund M.	$84 60
Cann, E. C.	65 00
Carters Ink Co., The	2 16
Chadwick-Boston Lead Co.	137 76
Chapman Valve Mfg. Co.	1,143 29
Citizen Printing Co.	115 50
Clark, Peter E.	2 00
Colson, Lorenzo	1 00
Conant, Herbert T.	1,200 00
Connolly Bros.	5 03
Crane Co.	318 08
Crosby & Cann	8 25
Crosby Steam Gage & Valve Co.	6 13
Crowell, W. B., Jr.	65 80
Crowley & Lunt	2 50
Cunningham, A. G.	9 70
Cunningham, Samuel	5 35
Davis & Farnham Mfg. Co.	20 80
Delaney, Thos. F.	2 45
Dexter, Samuel R.	47 93
Dirigo Creamery Co.	3 07
Dodge, A. & Son Corp.	204 64
Dow, James B. & Co.	13 56
Driscoll, Florence	84 00
Dwyer, John Co.	80
Eagle Oil & Supply Co.	466 96
Edson Mfg. Co.	9 00
Eldridge, H. A. & Co.	5 00
Elliott, William E.	18 21
Engineering News	5 00
Fairbanks Co., The	30 33
Fairbanks, J. L. & Co.	5 00
Flint, G. H.	2 25
Flint, Walter S.	11 52
Foster, John F.	4 00
Foster, John H.	5 25
Friend Brothers	52 50
Frost & Adams Co.	1 65
Galloupe & Trask	63 00
Gilchrist, George E. & Co.	3 23

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Giles, Edmund	$6 15
Girdler, John	9 00
Glauber Brass Mfg. Co.	6 55
Grant, Dudley G.	858 00
Greehy, James	24 75
Greenlaw Electric Co.	4 85
Groom, Thomas & Co.	86 25
Gulf Refining Co.	67 76
Gwinn, S. A.	84 00
Haddock, Charles W.	6 00
Haley, John J.	858 00
Ham's Beverly & Salem Express	19 00
Hamilton, F. A. E.	14 99
Harper Garage Co.	2,333 21
Harrigan, J. J.	3 20
Hartford Steam Boiler Inspection & Insurance Co.	67 50
Haskell, Edith C.	3 00
Haskell & Phelan	16 63
Hersey Mfg. Co.	502 69
Hickey, Edward F.	5 00
Hill, S. M., Co.	18 12
Hooper, Lewis & Co.	16 00
Johnson, Charles I.	5 00
Jones, M. D. Co.	157 50
Joseph, Edward G.	1 13
Kelley & Jones Co.	20 46
Kent, C. A.	1 13
Kilham, J. F.	5 50
Lee, Edward C.	413 61
Lee, Joseph W. & Co.	4 05
Library Bureau	3 25
Linehan, Daniel & Son	27 78
Locke Regulator Co.	4 00
Lovett, Solon	4 20
Lowell, Hiram & Son	21 00
Lunn, Otis L.	1,000 00
Lunt, A. C.	13 20
Lyman, A. H.	3 05
Makepeace, B.L.	9 90

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Marshall & Moulton Express Co.	$56 30
Matheson, James	6 07
McArdle, H. B.	12 11
McDonnell, Thomas J.	89 95
McLarren, J. A.	6 70
McRae, L. K.	6 15
Meek, H. M. Publishing Co.	4 00
Meserve, H. M. & Co.	4 10
Morse, Merriam C.	568 63
Mueller Mfg. Co.	759 75
National Meter Co.	637 05
Neostyle Co.	2 00
New England Tel. & Tel. Co.	205 93
Norwood Engineering Co.	33 60
Norwood, Francis, P.M.	176 12
Nugent, John J.	50 00
Perfect Packing Co.	32 52
Perkins, L.	2 00
Perrin, Seamans & Co.	4 50
Pickett & Goodwin	59
Pierce, John L.	7 00
Pierce, Wilbur J.	3 17
Pittsburg Meter Co.	7 40
Plymouth Cordage Co.	15 68
Pope, J. F. & Son	153 07
Porter, C. W.	11 00
Pratt & Cady Co., The	1 58
Preston's Express	5 75
Richards & Co.	1,427 25
Richardson, Albert H.	45 38
Robertson, Robert	89 65
Robertson, Robert Co.	162 62
Ropes Drug Co.	90
Salem Brass Foundry	3 64
Salem Iron Foundry	523 12
Sampson, George H. & Co.	12 74
Sampson-Murdock Co.	6 00
Sheridan, Thomas F.	7 92
Simpson Brothers Corp.	33 13
Smallie, W. F.	1 70

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Smith, D. C.	$89 93	
Smith, Ira A.	24 35	
Sprague, Breed & Brown Co.	16 45	
Standley, William	4 50	
Stensrud, Sigrid H.	500 00	
Stevens, William M.	287 75	
Tarbox Drug Co.	1 75	
Thompson, A. F.	30 00	
Tobey, H. C.	1 25	
Toothaker, Charles J.	2 00	
Torrey, H. Malcolm	51 14	
Underwood Typewriter Co.	3 00	
United States Cast Iron Pipe & Foundry Co.	9,343 94	
Union Water Meter Co.	4 15	
Walworth Mfg. Co.	1,064 48	
Watson, L. J.	3 75	
Webb, Alden	1 50	
Webber, Harry C.	20 50	
Whipple, Robert	4 80	
Whitcomb-Carter Co.	524 11	
Wood, R. D. & Co.	872 40	
Woodbury, Estate of Edith	2 75	
Woodbury, Frank, 2d.	193 98	
Worthington, Henry R.	2,774 30	
Young, Charles T.	14 52	
Young, Oscar D.	858 00	
		$39,566 96

EXPENDITURES FOR LABOR

Barry, John J.	$656 30
Blute, John H.	212 67
Brown, Robert E.	752 06
Buckle, Charles R.	280 83
Burnham, Louis E.	778 45
Byrnes, Patrick	644 20

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Cahill, James	$2 25
Chiotti, Cosimo	387 16
Chiotti, Pietro	742 36
Coleman, James	78 75
Collins, Edward	417 54
Connolly, Thomas	827 25
Corning, Austin	366 49
Cullivan, Patrick	410 78
Cullivan, Thomas	173 40
Cunningham, Richard	301 80
Daley, Dennis	504 31
Daley, Hugh	622 20
Daley, Michael	153 57
Daley, Patrick A.	1,118 00
Davis, Charles S.	119 39
Delaney, Patrick	612 84
DiRublio, Angelo	495 14
Dodge, J. Henry	92 25
Dutra, Frank T.	24 75
Foster, Fred P.	21 38
Foster, James P.	6 75
Francis, Manuel J.	440 31
Gillis, Daniel	96 61
Gillis, John	270 86
Grant, Robert H.	703 13
Green, Charles A.	144 86
Hade, John	328 37
Ham, L. Beecher	703 13
Jackson, Harry	6 75
Jones, Henry	518 51
Lynch, John	383 78
McEachern, Roland	14 07
McGrath, John	436 67
McIntire, Wilson	9 00
McKeagan, Nelson	13 50
Minnigan, Richard	630 54
Modugno, Sabino	72 71
Murphy, Edward	307 13
Narane, Eyfire	162 04
Nelson, Louis	505 01

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O'Brien, Thomas	$13 50	
Pinclaro, Albert	447 07	
Pinclaro, Fillipo	104 20	
Pinclaro, Rocco	392 37	
Pipola, James	67 50	
Pitarro, Antonio	70 60	
Raymond, Charles	191 85	
Rochford, Thomas	585 42	
Sabino, Dominick	57 52	
Shea, Michael	424 41	
Standley, Charles A.	677 97	
Standley, Walter H.	772 84	
Stickney, Edward	422 31	
Sturk, John	200 27	
Thomas, James	544 39	
Tinker, George	85 78	
Trask, Frank	677 43	
Twohig, William	67 78	
Wentworth, Joseph	355 54	
Wright, J.	17 16	
Yates, Thomas	230 66	
Yuill, Richard	484 64	
		$23,441 06

TOTAL COST OF EXTENSIONS AND ADDITIONS MADE DURING THE YEAR 1912

Street mains and gates	$10,733 95	
Service pipes	3,018 80	
Hydrants, fountains and standpipes	1,245 48	
Meters	4,991 48	
		$19,989 71

ESTIMATED COST OF WORKS TO JANUARY 1, 1913

Reservoir and surrounding grounds	$36,094 80
Pumping station	25,599 17
Machinery	18,682 40
Street mains and gates	356,148 75
Reconstruction (extension of system)	73,127 65

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Service pipes	$72,752 40	
Hydrants, fountains and standpipes	15,861 64	
Meters	21,909 08	
Office furniture, books, plans, charts, etc.	2,853 53	
Horses, wagons, tools	1,715 77	
Auto truck	2,250 00	
Workshop	3,429 36	
		$630,424 55

APPROXIMATE EXPENSE FOR THE YEAR 1912

Amount of bills approved for extensions and additions		$19,989 71	
Total reconstruction:			
(*a*) Value of old mains removed (estimated)	$5,522 00		
(*b*) Extension of system (estimated)	8,475 64		
		$13,997 64	
Amount of bills approved for maintenance and operating expenses		29,020 67	
Interest on cost of works, $597,252 65 at 4 per cent. (estimated)		23,890 11	
Sinking Fund		3,000 00	
Water Loan 1903		2,000 00	
Water Loan 1905		2,000 00	
Water Loan No. 2, 1905		2,000 00	
Water Loan 1910		2,000 00	
Fuel, pumping station ($4.50 per ton)		3,207 79	
			$101,105 92
Deduct the amount of the extensions and additions, and reconstruction (extension of system)			28,465 35
Estimated operating expenses for the year 1912			$72,640 57

Respectfully submitted,

OTIS L. LUNN,

Clerk.

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REPORT OF THE SUPERINTENDENT

BEVERLY, MASS., January 1, 1913.

Beverly Water Board, Beverly, Mass.:

GENTLEMEN:—I herewith submit the report of the department under my charge for the year 1912.

The tables submitted as a part of this report give in detail the work performed by the department during the year.

In all, 4.71 miles of mains have been laid in the city in the past year, of which, about two miles were laid in streets not previously supplied with water, and 2.7 miles of mains were laid in place of old mains either worn out or of inadequate size.

Some of the principal mains laid were as follows: (1) On Cabot St. to complete the 8 in. main to Conant St., thereby insuring a good feeder from the 30 in. Salem main on Conant St. in case our supply were for any reason crippled. (2) The main on Cabot St. from School St. to Water St. was relaid with 12 in. cast iron pipe, thus completing a 12 in. circuit from Gloucester Crossing to Water St. on Cabot St. (3) A 12 in. cast iron main was laid on Lovett St. from Washington St. to Dane St., thus completing a 12 in. circuit on the east side of the city from Essex St. through Dane St. and Lovett St. to Bartlett St. This main should give this section of the city ample fire protection for many years to come, as well as a good domestic supply. Four new hydrants were set in connection with this work at important street crossings. (4) A 12 in. cast iron main was laid on the extension of McKay St. from the Winslow School north to the County Way, a distance of about 2,000 ft. This main when completed to Dodge St. at Cabot St. will form a very important feeder to all of Rial Side. In connection with all of the above work many new hydrants have been installed, insuring better fire protection in all cases.

The number of leaks on main pipes still continues very large, and still tends to keep the *per capita* consumption large.

There was also a large quantity of water used the past year for flushing out the mains and hydrants throughout the entire system. Every hydrant in the system was opened and the water left running until it came practically clear at the nozzle. This

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work required three men and a team for about two months, and while the results were satisfactory, a large quantity of water was used.

A considerable amount of work was done in the winter of 1911–1912 on clearing of the brush in the pasture around the reservoir, and with an equal amount of work this winter ought to make this part of the reservoir lot a very attractive spot.

A large part of the house services in the city proper have been inspected during the year and a considerable amount of work will have to be done to place them in proper working order. Many of the boxes are entirely filled with dirt, some are broken, and the tops of many more are buried several inches below the present grade of the sidewalks. The balance of the services in the city should be inspected, and the repairs made on all services as soon as possible.

In general, the department is in good condition, but on any plant of this kind, where the larger per cent. of the property is buried in the ground, constant inspection and care must be exercised in order to eliminate defects, and have all fixtures in proper working order at all times.

Respectfully yours,

JAMES W. BLACKMER,

Superintendent.

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Table No. I

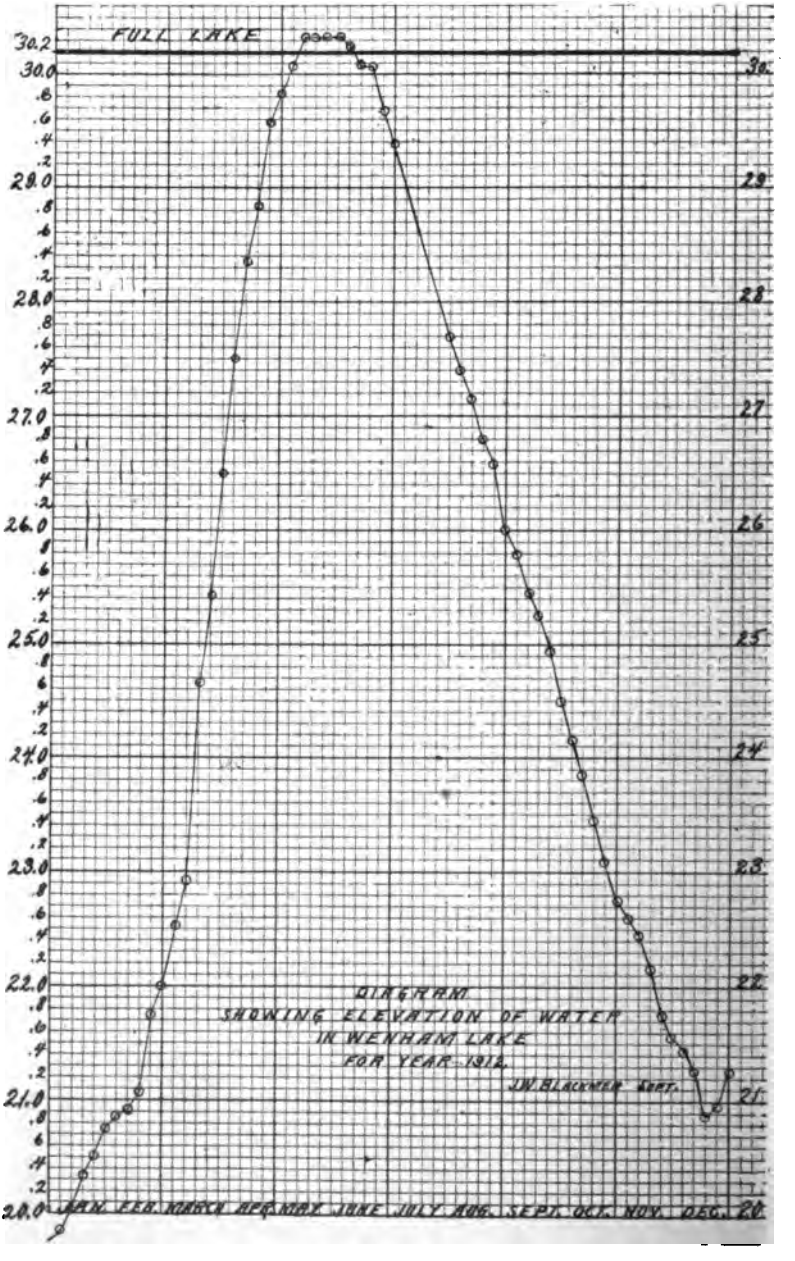

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TABLE No. II

BEVERLY PUMPING STATION

SUMMARY OF ENGINEER'S REPORT FOR 1912

MONTH	Total Pumping Time Per Month H. M.	Number of revolutions per month	Average revolutions per minute	Total number of gallons pumped per month	Average number of gallons pumped daily	Average number of gallons pumped per pound of coal	Total coal consumed	Total Ashes	Per cent. Ashes	Total lift in feet
January.....	617.30	941,769	25	50,855,526	1,640,500	406	125,100	10,750	8.5	156
February.....	588.30	914,643	25	49,391,262	1,703,146	424	116,400	11,460	9.0	155
March.....	577.30	904,818	26	48,860,172	1,576,134	413	118,110	11,760	9.0	151
April.....	546.	844,882	25	45,623,628	1,520,787	379	120,690	11,580	9.0	147
May.....	601.30	976,942	27	52,754,868	1,701,769	408	129,032	13,870	10.0	145
June.....	717.	1,317,372	30	71,138,088	2,371,269	400	177,450	16,140	9.0	145
July.....	892.30	1,437,067	26	77,601,618	2,503,278	448	173,150	19,310	11.0	147
August.....	698.	1,130,554	26	61,049,376	1,969,334	371	164,230	19,500	11.0	148
September....	671.	1,072,607	26	57,920,778	1,930,692	348	166,380	17,470	10.0	148
October.....	683.	1,086,598	26	58,675,892	1,892,770	334	175,240	19,880	11.0	150
November	627.	957,837	25	51,728,595	1,668,664	375	163,870	19,200	11.0	153
December.....	601.	927,901	25	50,106,654	1,616,343	330	151,590	16,470	10.0	154
Total.....	7,820.30	12,512,990	26	675,706,457	1,841,223	386.3	1,781,242	187,390	9.8	149

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Table No. III

Statement showing the average daily consumption of water for the years 1889 to 1912 inclusive.

1889	719,900	gallons
1890	743,025	"
1891	674,830	"
1892	816,450	"
1893	843,465	"
1894	896,495	"
1895	809,170	"
1896	873,895	"
1897	854,450	"
1898	899,354	"
1899	966,417	"
1900	1,002,782	"
1901	1,018,011	"
1902	1,044,534	"
1903	1,111,246	"
1904	1,227,766	"
1905	1,321,119	"
1906	1,420,168	"
1907	1,568,073	"
1908	1,735,580	"
1909	1,641,553	"
1910	1,702,040	"
1911	1,601,996	"
1912	1,851,250	"

Consumption of water per head, per day for year 1912, 92.4 gallons. Population for 1912, 20,021.

Table No. IV

Statement showing the amount of water pumped from Wenham Lake and the rainfall in each year from 1873 to 1912 inclusive.

1873	654,259,518	
1874	609,765,606	34.89
1875	767,196,400	51.61

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TABLE No. IV—(continued)

1876	723,588,050	50.06
1877	721,336,450	46.99
1878	678,369,900	60.94
1879	707,552,450	39.69
1880	732,475,650	36.64
1881	786,089,550	44.51
1882	840,672,250	40.51
1883	820,156,760	40.40
1884	806,341,680	50.98
1885	941,556,050	55.33
1886	896,417,600	47.89
1887	929,906,758	42.61
1888	1,082,244,225	47.23
1889	1,014,952,852	53.34
1890	1,050,635,498	46.06
1891	1,200,854,412	43.50
1892	1,220,430,018	36.83
1893	1,079,307,934	36.16
1894	1,160,563,052	35.98
1895	1,088,776,400	46.33
1896	1,160,276,080	38.81
1897	1,127,012,080	44.36
1898	1,168,840,174	57.36
1899	1,257,923,212	36.60
1900	1,358,934,702	44.13
1901	1,418,081,840	45.90
1902	1,501,549,092	43.92
1903	1,563,799,358	47.74
1904	1,606,443,140	45.90
1905	1,669,691,982	36.83
1906	1,615,861,236	44.81
1907	1,775,164,596	44.46
1908	1,841,895,600	34.73
1909	1,917,002,140	42.32
1910	2,055,285,925	33.02
1911	1,784,191,446	40.36
1912	2,055,224,217	40.51
Average		43.85

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TABLE NO. V

Statement showing the location, amount and kind of all new water distributing pipes, regarded as mains, which have been laid in the city from January 1, 1912, to December 31, 1912.

STREET	LOCATION	Number of linear feet laid							
		Galvanized				Cast Iron			
		2 in.	1½ in.	1 in.	¾ in.	12 in.	8 in.	6 in.	4 in.
Baker	Extended north							72.0	
Bates Road	Extended north from Williams St.							578.7	
Bisson	From Butman St. to Essex St.							202.6	
Bosworth	From Balch St. to Balch St.							812.7	
Boyden Ave.	East from Whitney Ave.							148.5	
Boyles	Extended north							952.4	
Broadway	Extended west		33.0						
Burton Ave.	To complete circuit	60.0							
Cabot	Extended north to School St.					419.4		64.0	
Cabot	Extended to Conant St.						855.8	6.0	
Chapman	From Bow St. to Federal St.							295.0	
Chapman Terrace	From Chapman St. west		166.2						
Davis	From Front St. to Stone St.							389.1	
Douglas Road	From Guild Ave. north	174.0						322.6	
Ellsworth Ave.	Extended south							139.7	
Essex	From Groce St. south						1,014.0	41.7	
Essex Ave.	From Essex St. east	151.8							
Fillmore	Extended east	382.6							
Fire Supply	To Sprague, Breed & Brown Co.							244.2	
Front	From Cabot St. to Davis St.							424.5	
Garden	Extended to Woodland Ave.							10.0	125.8
Giddings Ave.	East from Whitney Ave.							282.5	
Guild Road	East from Douglas Road							366.0	
Hayes Ave.	Extended west		296.3		142.5				
Highland Terrace	From Highland Ave. east	14.3							160.8
Holden Ave.	From Western Ave. southeast							308.0	
Hull	Extended east							1,006.5	
Larcom Ave.	Extended to Peabody Ave.							200.0	
Lovett	From Washington St. to Dane St.					1,762.2		100.5	
McKay	From Balch St. to County Way					2,000.0			

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TABLE No. V—(continued)

STREET	LOCATION	Number of linear feet laid							
		Galvanized				Cast Iron			
		2 in.	1½ in.	1 in.	¾ in.	12 in.	8 in.	6 in.	4 in.
Melvin Ave.	Extended west			466.4					
Middle	From Bisson St. north							359.4	
Mill	Extended west		111.1						
Northern Ave.	From Eastern Ave. westerly							375.4	
Odell Ave.	From Bertram St. easterly						320.0		
Paine Place	Over W. S. Spaulding property							862.8	
Paine Place	Over Frederick Ayer property								157.6
Paine Place	Over Misses K. P. and L. Loring property								133.2
Pearl	Extended to Corning St.							317.0	
Railroad Ave.	From Park St. to Cabot St.						1,405.4	55.6	74.0
Rowell Ave.	To complete circuit							272.9	
School	From Wellman St. to Porter St.							342.5	
Silver Ct.	From Water St.								305.0
Summit Ave.	At Cabot St.								53.8
Taft Ave.	Extended west		37.0						
Thorndike Ave.	From Lovett St. to Lothrop St.							435.5	
Union	From Cabot St. to Bartlett St.							512.8	
Wallis	From Cabot St. to Rantoul St.							1,344.9	
Water	Extended east from Silver Ct.								154.2
Whitney Ave.	Extended south							184.0	
Whittier Ave.	From Fairview Ave.	216.8	151.7						
Winter	From Cabot St. to Essex St.							439.4	
Woodbury	From Ober St. to Hale St.							1,056.3	
	Totals	999.5	795.3	466.4	142.5	4,181.6	3,595.2	13,525.7	1,164.4

Total: Galvanized, 2,403.7 ft. Cast Iron, 22,466.9 ft.

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TABLE No. VI

Statement showing the location and amount of galvanized and cement-lined pipe removed during the year 1912.

STREET	Galvanized 1 in.	Galvanized 2 in.	Cement Lined 4 in.	Cement Lined 6 in.	Cement Lined 8 in.
Bisson, between Essex St. and Burton Ave.	.....	.....	.....	191.6	.....
Boyles, near Katherine Silsbee's	.....	.....	952.4	.....	.....
Cabot, from School St. south	.....	.....	.....	419.4	855.8
Chapman, from Bow St. to Federal St.	.....	.....	287.0	.....	.....
Davis, from Front St. to Stone St.	.....	.....	389.1	.....	.....
Essex, from Groce St. west	.....	.....	1,024.0	.....	.....
Front, from Cabot St. to Davis St.	.....	.....	424.5	.....	.....
Groce, at Essex St.	.....	.....	32.4	.....	.....
Hull, at Horace Appleton's	.....	.....	989.5	.....	.....
Lovett, from Washington St. to Dane St.	.....	.....	1,811.0	.....	.....
Paine Place, over Spaulding's, Ayer's and Loring's land	.....	.....	1,144.6	.....	.....
Pearl, from Corning St.	132.0	.....	.....	.....	.....
Railroad Ave., from Cabot St. to Park St.	.....	.....	33.0	1,162.4	.....
School, at Cabot St.	.....	.....	64.0	.....	.....
School, from Wellman St. to Porter St.	.....	.....	342.5	.....	.....
Silver Ct., from Water St.	.....	.....	305.0	.....	.....
Summit Ave., at Cabot St.	.....	53.8	.....	.....	.....
Thorndike Ave., from Lovett St. to Lothrop St.	.....	435.5	.....	.....	.....
Union, from Cabot St. to Bartlett St.	.....	.....	502.8	.....	.....
Wallis, from Cabot St. to Rantoul St.	.....	.....	1,311.9	.....	.....
Winter, from Cabot St. to Essex St.	.....	.....	439.4	.....	.....
Woodbury, from Ober St. to Hale St.	.....	.....	1,046.0	.....	.....
Totals	132.0	489.3	11,099.1	1,773.4	855.8

TABLE No. VII

Statement showing the total number of miles of water distributing pipes regarded as mains in the city, December 31, 1912.

Kind	Jan. 1, 1912	Added in 1912	Discontinued in 1912	Dec. 31, 1912
Cement-lined	26.569	———	2.600	23.969
Cast Iron	42.937	4.255	———	47.192
Galvanized	8.222	.455	.117	8.560
Totals	77.728	4.710	2.717	79.721

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Table No. VIII

Statement showing the number, size and location of stop gates inserted in the pipe mains of the city during the year 1912.

Street	Size	Location	Co-ordinates	
Abbott	6 in.	At Lovett St. west	2.8 west from 12 in. cross	33.7 from post hydrant
Abbott	6 in.	At Lovett St. east	2.8 east from 12 in. cross	31.8 from post hydrant
Bates Road	6 in.	At Guild Road	14.6 east from west line Bates Road	4.6 north from south line Guild Road
Bosworth	6 in.	At Balch St. south	On north line Balch St.	15.5 east from s.b. west corner street
Bosworth	6 in.	At Balch St. north	On south line Balch St.	13.7 east from s.b. west corner street
Boyden Ave.	6 in.	At Whitney Ave.	On east line Whitney Ave.	22.8 north from stone bound s. cor. street
Boyles	6 in.	Near K. Silsbee's cottage	15.0 east from west line street	25.2 northerly on angle from hydrant
Burton Ave.	2 in.	At Bisson St.	On south line Bisson St.	31.2 on angle from cor. h. east side street
Cabot	12 in.	At School St.	13.5 south from 12 in. gate north	48.4 from 6 in. gate Stone St.
Chapman Terrace	1½ in.	At Chapman St.	Near west line Chapman St.	See Superintendent's notes
Colon	12 in.	At Spring St.	28.4 easterly on diagonal from hydrant	40.3 from 6 in. gate Spring St.
Davis	6 in.	At School St.	Location not changed	
Essex Ave.	2 in.	At Essex St.	On easterly line Essex St.	8.3 n.e. from s.w. line Essex Ave.
Fire Supply	6 in.	At Sprague, Breed & Brown Co.'s	9.7 north from south line Cabot St.	42.9 east from hy lrant
Front	6 in.	At Davis St.	2.2 e. from w. line No. 22 Front St.	43.7 south from south line No. 22 Front St.
Gage	6 in.	At Mill St.	On south line Mill St.	20.0 west from east corner Gage St.
Garden	4 in.	At Woodland Ave.	24.3 north from s.b. south corner Garden St.	4.5 east from west line Woodland Ave.
Giddings Ave.	6 in.	At Whitney Ave.	On east line Whitney Ave.	40.0 north from s.b. south corner street
Groce	6 in.	At Essex St.	Location not changed	
Highland Terrace	4 in.	At Highland Ave.	On east line Highland Ave.	49.7 south from hydrant
Holden Ave.	6 in.	At Western Ave.	2.0 west from east line Western Ave.	13.6 north from south line Holden Ave.
Hull	4 in.	At Morgan's	21.8 easterly on angle from hydrant	40.4 on diagonal from lot line

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TABLE No. VIII—(continued)

Street	Size	Location	Co-ordinates	
Larcom Ave.	6 in.	At Peabody Ave.	31.8 south from wall north side street	43.8 from inside corner stone post at street corner
Lovett	12 in.	At Ocean St.	On south line Ocean St.	32.6 east from west corner Lovett St.
McKay	12 in.	At Balch St.	On north line Balch St.	20.8 west from east corner McKay St.
Middle	6 in.	At Bisson St.	On north line Bisson St.	19.6 east from east line h. west cor. street
Mill	1½ in.	At Baker St.	22.2 south from south line 41 Mill St.	4.5 east from east line No. 41 Mill St.
Paine Place	6 in.	At H. P. King's.	7.1 easterly from F. Ayer lot line	6.8 southerly from hydrant
School	6 in.	At Cabot St.	On west line Cabot St.	14.0 north from s.b. south corner School St.
Summit Ave.	4 in.	At Cabot St.	Location not changed	
Thorndike	6 in.	At Lovett St. west.	Location not changed	
Thorndike Ave.	6 in.	At Lovett St. east.	On east line Lovett St.	11.8 northerly from hydrant
Union	6 in.	At Bartlett St.	On westerly line Bartlett St.	24.0 southerly from s.b. north corner street
Water	4 in.	As blow-off	2.0 east from east line No. 132 Water St.	13.5 south from north line Water St.
Whittier Ave.	2 in.	At Fairview Ave. east	32.5 east from 1½ in. gate west	
Whittier Ave.	1½ in.	At Fairview Ave. west	On west line Fairview Ave.	19.4 east from east line house north side st.
Winter	6 in.	At Cabot St.	22.6 west from west line old West building	26.5 on diagonal from northwest cor. bldg.

Total number of new gates:

12 in.	6 in.	4 in.	2 in.	1½ in.	Total
4	22	5	3	3	37

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Table No. IX

Statement showing the number, size and location of stop gates discontinued during the year 1912.

Street	Size	Location
Davis	4 in.	At Stone St.
Front	4 in.	At Davis St.
Groce	4 in.	At Essex St.
Lovett	4 in.	At Abbott St.
Lovett	4 in.	At Ocean St.
Lovett	4 in.	At Ocean St.
School	4 in.	At Cabot St.
Summit Ave.	2 in.	At Cabot St.
Thorndike Ave.	2 in.	At Lovett St.
Thorndike	4 in.	At Lovett St.
Winter	4 in.	At Cabot St.

Table No. X

Statement showing the total number of stop gates of all sizes, in use in the city, December 31, 1912.

Total number in use January 1, 1912	746	
Total number added during the year 1912	37	
		783
Total number discontinued during the year 1912		11
Total number in use December 31, 1912		772

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Table No. XI

Statement showing the number and sizes of new service pipes put in during the year 1912, also the total number now in use.

	6 in.	2 in.	1½ in.	1 in.	¾ in.	Total
Put in during the year 1912	1	6	4	77	62	150
Number in use January 1, 1912						4,645
						4,795
Discontinued during the year 1912						16
						4,779
Number of services renewed during the year 1912						203
Number of services probed during the year 1912						33

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TABLE No. XII

Statement showing the number and location of fire hydrants in use in the city, December 31, 1912.

No.	Street	Location	Make	Size	Pressure	Kind
1	Abbott	at Cabot St.	Coffin (Walker Pat.)	6 in.	53	Post
2	Arlington Ave.	at C. E. Critchett's	Chapman	6 "	52	"
3	Ashton	near R. Wood's stable	Chapman	6 "	54	"
4	Atlantic Ave.	corner Lothrop St.	R. D. Wood & Co.	4 "	59	"
5	Atlantic Ave.	near John F. Hill's	Chapman	4 "	58	"
6	Back	rear South School	Chapman	6 "	56	"
7	Baker	at Grant St.	Chapman	6 "	65	"
8	Baker Ave.	near Larcom Ave.	R. D. Wood & Co.	6 "	34	"
9	Baker Ave.	opp. G. H. Clayton's	R. D. Wood & Co.	6 "	36	"
10	Balch	at Blaine Ave.	Coffin (Walker Pat.)	6 "	61	"
11	Balch	near John Bell estate	Coffin (Walker Pat.)	6 "	66	"
12	Balch	west of brick house	Coffin (Walker Pat.)	6 "	60	"
13	Balch	at new Balch St.	Coffin (Walker Pat.)	6 "	60	"
14	Balch	at J. W. Raymond's	Coffin	4 "	61	"
15	Balch	at W. H. Palmer's	Coffin	4 "	57	"
16	Bartlett	at Front St.	Coffin (Walker Pat.)	6 "	60	"
17	Bartlett	opposite Union St.	Chapman	4 "	58	"
18	Bass River		Chapman	4 "	71	"
19	Bay View Ave.	at A. A. Lawrence's	Chapman	4 "	59	"
20	Beach	at Grove St.	Coffin (Walker Pat.)	6 "	60	"
21	Beckford	near A. P. Spiller's	Chapman	6 "	61	"
22	Beckford	at J. A. Torrey's	Chapman	4 "	62	"
23	Beckford	corner Cabot St.	Chapman	6 "	58	"
24	Bennett	at angle in street	Chapman	6 "	64	"
25	Bisson	at Essex St.	Chapman	6 "	46	"
26	Bisson	east of Butman St.	Chapman	4 "	62	"
27	Bisson	near Locust St.	Chapman	4 "	59	"
28	Bisson	near Hale St.	Chapman	4 "	62	"
29	Blaine Ave.	near Cabot St.	R. D. Wood & Co.	4 "	61	"
30	Bosworth		Chapman	6 "	58	"
31	Bow	opposite Home St.	R. D. Wood & Co.	4 "	56	"
32	Boyles	at Miss K. Silsbee's	Coffin (Walker Pat.)	6 "	53	"
33	Brackenbury	near H. F. Sears'	Chapman	4 "	64	"
34	Bridge	near Livingston Ave.	Boston Machine Co. (Carr Pat.)	6 "	51	"
35	Bridge	at Roderick Ave.	R. D. Wood & Co.	6 "	50	"
36	Bridge	at schoolhouse	R. D. Wood & Co.	6 "	51	"
37	Bridge	at W. C. Major's	Boston Machine Co. (Carr Pat.)	6 "	47	"
38	Bridge	near Cressy St.	Whittier Machine Co.	6 "	44	"
39	Brimbal Ave.	near Colon St.	Coffin	6 "	52	"
40	Brimbal Ave.	near land of B. W. Standley	Coffin	6 "	46	"
41	Brimbal Ave.	near new Boston road	Coffin	6 "	42	"
42	Brimbal Ave.	at land of Swift	Coffin	6 "	39	"
43	Brimbal Ave.	at Reservoir Ave.	R. D. Wood & Co.	6 "	47	"
44	Brimbal Ave.	south of R.R. crossing	Coffin	6 "	54	"
45	Brimbal Ave.	near Pumping Station	Whittier Machine Co.	6 "	57	"
46	Broadway	near S. B. Bray estate	R. D. Wood & Co.	6 "	48	"
47	Butman	near Bisson St.	Chapman	4 "	52	"
48	Cabot	near Essex Bridge	Chapman	4 "	70	"
49	Cabot	at Sprague, Breed & Brown Co.	Coffin (Walker Pat.)	6 "	70	"
50	Cabot	opposite Frost Box Co.	Chapman	6 "	63	"
51	Cabot	at Davis St.	Chapman	6 "	59	"
52	Cabot	at Union St.	Coffin (Walker Pat.)	6 "	51	"
53	Cabot	at F. Norwood's	Coffin (Walker Pat.)	6 "	51	"
54	Cabot	at Hinkley building	Coffin (Walker Pat.)	8 "	51	"
55	Cabot	at Central St.	Coffin (Walker Pat.)	8 "	50	"
56	Cabot	at Atlantic block	Coffin (Walker Pat.)	8 "	50	"
57	Cabot	at Endicott block	Coffin (Walker Pat.)	8 "	50	"
58	Cabot	at City Hall	Coffin (Walker Pat.)	8 "	50	"
59	Cabot	at Federal and Essex Sts.	Lowry		55	Flush
60	Cabot	near Catholic Church	Chapman	6 "	51	Post
61	Cabot	near Pond St.	Chapman	6 "	51	"
62	Cabot	at Judson St.	Chapman	6 "	51	"
63	Cabot	at Charnock St.	Chapman	6 "	56	"
64	Cabot	at Elliott St.	Chapman	6 "	55	"
65	Cabot	near Chestnut St.	Chapman	4 "	53	"

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No.	Street	Location	Make	Size	Pressure	Kind of
66	Cabot	at Summer St.	Chapman	6 in.	54	Post
67	Cabot	at Rantoul St., north	Lowry		62	Flush
68	Cabot	at Rantoul St. north	Coffin (Walker Pat.)	8 "	60	Post
69	Cabot	at Bennett St.	R. D. Wood & Co.	6 "	61	"
70	Cabot	near Simon St.	R. D. Wood & Co.	4 "	60	"
71	Cabot	near Swan St.	R. D. Wood & Co.	4 "	67	"
72	Cabot	near Herrick St.	Coffin (Walker Pat.)	6 "	70	"
73	Cabot	near E. Moulton estate	R. D. Wood & Co.	4 "	63	"
74	Cabot	near B. N. Dodge estate	R. D. Wood & Co.	6 "	60	"
75	Cabot	near R. N. Lee's	R. D. Wood & Co.	4 "	59	"
76	Cabot	near Geo. J. Hill's	R. D. Wood & Co.	4 "	58	"
77	Cabot	at M. B. Raven's	R. D. Wood & Co.	6 "	57	"
78	Cabot	near Balch St., north	R. D. Wood & Co.	4 "	55	"
79	Cabot	at Dodge St.	Coffin (Walker Pat.)	6 "	54	"
80	Cabot	near J. W. Hobb's	Chapman	4 "	52	"
81	Cabot	at F. A. Woodbury's	Chapman	6 "	55	"
82	Cabot	near Conant St.	Boston Machine Co.	4 "	54	"
83	Cabot	near S. E. Glines'	Boston Machine Co.	4 "	50	"
84	Cabot	near Phillips' estate	Boston Machine Co.	4 "	56	"
85	Cabot	near Trask St., north	Boston Machine Co.	4 "	47	"
86	Cedar	near Almshouse	Chapman	4 "	45	"
87	Central	near G. P. Irving's	Chapman	4 "	55	"
88	Central	near F. W. Plaisted's	Coffin (Walker Pat.)	6 "	54	"
89	Chapman	at Federal St.	Chapman	6 "	52	"
90	Charnock	near Prospect St.	Chapman	4 "	55	"
91	Charnock	at Butman St.	R. D. Wood & Co.	6 "	57	"
92	Chase	near Roundy St.	Chapman	6 "	66	"
93	Chase	near West Dane St.	R. D. Wood & Co.	6 "	68	"
94	Chase	near Pond St.	R. D. Wood & Co.	6 "	66	"
95	Chestnut	near H. C. Roundy estate	Chapman	6 "	65	"
96	Cole	near Essex St.	Boston Machine Co.	4 "	46	"
97	Colon	opposite Dearborn Ave.	Chapman	6 "	67	"
98	Colon	opposite Heather St.	R. D. Wood & Co.	6 "	58	"
99	Colon	opposite Spring St.	Whittier Machine Co.	6 "	55	"
100	Columbus Ave.	near I. A. Sturtevant's	Coffin (Walker Pat.)	6 "	40	"
101	Common	at Standley St.	R. D. Wood & Co.	4 "	52	"
102	Common	at Branch Lane	Coffin (Walker Pat.)	6 "	53	"
103	Common	at Witch Lane	Chapman	6 "	42	"
104	Conant	near Dodge St.	Boston Machine Co.	4 "	52	"
105	Conant	near schoolhouse	R. D. Wood & Co.	4 "	52	"
106	Conant	near S. Porter's	Boston Machine Co.	4 "	52	"
107	Conant	near M. L. Chamberlain's	Boston Machine Co.	4 "	30	"
108	Congress	near S. K. Poulan estate	Coffin (Walker Pat.)	6 "	66	"
109	Corning	at Essex St.	Chapman	6 "	55	"
110	Corning	near H. W. Peabody estate	Chapman	4 "	61	"
111	Corning	near Lothrop St.	Coffin (Walker Pat.)	6 "	57	"
112	Court	at J. F. Desmond's stable	Coffin (Walker Pat.)	6 "	66	"
113	Crescent Ave.	near Salters' Ave.	Boston Machine Co. (Carr Pat.)	4 "	72	"
114	Crescent Ave.	at Winthrop Ave.	Boston Machine Co.	4 "	65	"
115	Cressy	at C. P. Pierce's	Chapman	6 "	49	"
116	Cross	at S. W. Woodberry's	Chapman	4 "	59	"
117	Cross	near Hale St.	Coffin (Walker Pat.)	6 "	62	"
118	Dane	near Cabot St.	R. D. Wood & Co.	6 "	55	"
119	Dane	at Essex St.	Chapman	4 "	58	"
120	Dane	in the Common	Coffin (Walker Pat.)	6 "	58	"
121	Devon Ave.	at Dodge St.	Chapman	6 "	48	"
122	Devon Ave.	at Fred Dodge's	R. D. Wood & Co.	4 "	47	"
123	Dodge	near B. Ludden estate	Chapman	6 "	53	"
124	Dodge	near E. L. Marshall's	Chapman	4 "	52	"
125	Dodge	near Geo. W. Glines'	Chapman	6 "	52	"
126	Dodge	near I. P. Brown's	Chapman	6 "	51	"
127	Dodge	near L. Woodberry estate	Chapman	6 "	51	"
128	Dodge	near Arlington Ave.	Chapman	4 "	51	"
129	Dodge	near Salem St.	Chapman	6 "	49	"
130	Dodge	at Enon St.	Boston Machine Co. (Carr Pat.)	4 "	47	"
131	Dodge	near Geo. F. Rowe's	Coffin (Walker Pat.)	6 "	45	"
132	Dodge	near W. F. Dodge's	R. D. Wood & Co.	6 "	37	"
133	Dodge	at Chas. E. Riva's	Coffin (Walker Pat.)	6 "	45	"
134	Dodge	at A. N. Tyler's	Chapman	4 "	55	"
135	Dodge	near A. Haskell's	Coffin	4 "	47	"
136	Dodge	at H. Preston's	Boston Machine Co.	4 "	50	"
137	Dodge	at H. O. Edwards' estate	Boston Machine Co.	4 "	50	"
138	Dodge	near Wenham line	R. D. Wood & Co.	4 "	52	"
139	East Corning	near Neptune St.	Chapman	4 "	65	"
140	Eastern Ave.	at G. D. Batchelder's	Coffin (Walker Pat.)	6 "	40	"
141	Elliott	at Galloupe Ave.	R. D. Wood & Co.	4 "	61	"

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No.	Street	Location	Make	Size	Pressure	Kind
142	Elliott	opposite Beckford St.	Boston Machine Co. (Carr Pat.)	4 in.	67	Post
143	Elliott	at Bass River St.	R. D. Wood & Co.	6 "	75	"
144	Elliott	at U. S. Machine Co.	Chapman	6 "	65	"
145	Elliott	near McKay St.	Coffin (Walker Pat.)	6 "	71	"
146	Elliott	at Geo. H. Cressy's	Coffin (Walker Pat.)	6 "	72	"
147	Elliott	near Deaf Mute School	Boston Machine Co.	4 "	70	"
148	Elliott	opposite W. W. Gray's	Chapman	6 "	74	"
149	Elliott	near Giles Ave.	Chapman	4 "	53	"
150	Elliott	near Cressy St.	Boston Machine Co.	4 "	47	"
151	Elliott	near E. S. Johnson's	Boston Machine Co.	4 "	44	"
152	Elm	near Railroad Ave.	Boston Machine Co.	4 "	56	"
153	Endicott	near J. C. Kilham's	Chapman	4 "	55	"
154	Enon	at Lakeview Ave.	R. D. Wood & Co.	4 "	48	"
155	Enon	at Icehouses	Chapman	4 "	48	"
156	Enon	near Fillmore St.	Boston Machine Co. (Carr Pat.)	6 "	48	"
157	Essex	near Catholic Church	Chapman	6 "	47	"
158	Essex	near Catholic Church	Lowry		54	Flush
159	Essex	near Charnock St.	R. D. Wood & Co.	4 "	56	Post
160	Essex	at Baker Ave.	Coffin (Walker Pat.)	6 "	54	"
161	Essex	at Cedar St.	Coffin (Walker Pat.)	6 "	50	"
162	Essex	near I. D. Cole estate	Coffin	6 "	50	"
163	Essex	near J. H. Foster's	Whittier Machine Co.	6 "	50	"
164	Essex	near C. Hobbs' estate	Chapman	4 "	51	"
165	Essex	near Morgan's mill	Coffin (Walker Pat.)	4 "	40	"
166	Essex	near J. Standley's	Chapman	4 "	42	"
167	Essex	near A. J. Osborne's	Chapman	6 "	45	"
168	Essex	near Geo. Wightman's	Chapman	6 "	44	"
169	Essex	near E. Edwards' estate	Chapman	4 "	47	"
170	Essex	near Cogswell Ave.	Boston Machine Co.	4 "	50	"
171	Essex	at Wm. Stevens' field	Coffin	4 "	48	"
172	Essex	at Wm. Stevens' house	Coffin	4 "	50	"
173	Essex	at Wenham line	Coffin (Walker Pat.)	6 "	48	"
174	Everett	at J. H. Watson estate	Chapman	4 "	54	"
175	Everett	at O. N. Davis'	Chapman	4 "	55	"
176	Fairview Ave.	at Elliott St.	Chapman	4 "	63	"
177	Fayette	near Cabot St.	Chapman	4 "	56	"
178	Federal	opposite Mulberry St.	R. D. Wood & Co.	4 "	55	"
179	Folger	near Bridge St.	Coffin (Walker Pat.)	6 "	64	"
180	Folger	at Riverview Ave.	Coffin (Walker Pat.)	6 "	65	"
181	Front	near South St.	Boston Machine Co. (Carr Pat.)	4 "	65	"
182	Front	between Cabot & Davis Sts.	Chapman	6 "	65	"
183	Gage	at Wm. R. Tucker's	Boston Machine Co.	4 "	62	"
184	Gage	corner Mill St.	Chapman	6 "	64	"
185	Giddings Ave.	at Whitney Ave.	Chapman	6 "	46	"
186	Giles Ave.	at Stewart Ave.	Coffin (Walker Pat.)	6 "	50	"
187	Glidden	at Sturtevant St.	Coffin (Walker Pat.)	6 "	56	"
188	Glidden	at Matthies St.	Coffin (Walker Pat.)	6 "	54	"
189	Glidden	at Goodyear St.	Coffin (Walker Pat.)	6 "	50	"
190	Green	at Woodland Ave.	Coffin (Walker Pat.)	6 "	62	"
191	Greenwood Ave.	at Common Lane	Chapman	4 "	50	"
192	Greenwood Ave.	at Prides Hill Ave.	Boston Machine Co. (Carr Pat.)	4 "	29	"
193	Greenwood Ave.	at Hart St.	Boston Machine Co. (Carr Pat.)	4 "	54	"
194	Grover	near F. S. Lovett's	Chapman	4 "	46	"
195	Grover	near H. Whitney estate	Chapman	4 "	40	"
196	Hale	near Old South Church	Chapman	6 "	53	"
197	Hale	near Central Fire Station	R. D. Wood & Co.	6 "	54	"
198	Hale	near Bancroft estate	Chapman	6 "	55	"
199	Hale	at Dane St.	R. D. Wood & Co.	6 "	56	"
200	Hale	at J. A. Woodbury estate	Coffin (Walker Pat.)	6 "	59	"
201	Hale	at Woodbury St.	Coffin (Walker Pat.)	6 "	61	"
202	Hale	at I. Prince estate	Chapman	4 "	58	"
203	Hale	at Brackenbury St.	R. D. Wood & Co.	6 "	59	"
204	Hale	at Chapman's corner	Coffin (Walker Pat.)	6 "	57	"
205	Hale	at H. F. Sears, East Ave.	Coffin (Walker Pat.)	6 "	63	"
206	Hale	at. B. J. Allan's	Coffin (Walker Pat.)	6 "	59	"
207	Hale	at Dexter Park	Coffin (Walker Pat.)	6 "	50	"
208	Hale	at Mingo Beach hill	Coffin (Walker Pat.)	6 "	60	"
209	Hale	near J. S. Cabot estate	Coffin (Walker Pat.)	6 "	68	"
210	Hale	at F. J. Cotting's	Coffin (Walker Pat.)	6 "	59	"
211	Hale	at S. M. Jackson's Ave.	Coffin (Walker Pat.)	6 "	56	"
212	Hale	at H. C. Frick's	Coffin (Walker Pat.)	6 "	55	"
213	Hale	at Thissell St. west	Coffin (Walker Pat.)	6 "	52	"

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No.	Street	Location	Make	Size	Pressure	Kind
214	Hale	at W. C. Loring's	Coffin (Walker Pat.)	6 in.	54	Post
215	Hale	at Wyatt & Trowt's	Coffin (Walker Pat.)	6 "	59	"
216	Hale	at Paine Place	Coffin (Walker Pat.)	6 "	55	"
217	Hale	at W. H. Moore's stable	Coffin (Walker Pat.)	6 "	58	"
218	Hale	at D. M. Linehan's	Whittier Machine Co.	6 "	55	"
219	Hale	near Catholic Church	Coffin (Walker Pat.)	6 "	58	"
220	Hale	at J. B. Dow's greenhouse	Chapman	6 "	56	"
221	Hale	near Everett St.	R. D. Wood & Co.	6 "	55	"
222	Hale	near Pickett Ct.	Coffin (Walker Pat.)	4 "	57	"
223	Hale	at Hardy's store	Chapman	6 "	64	"
224	Hale	at Valley St.	Chapman	4 "	59	"
225	Hale	near Beach St.	Chapman	4 "	61	"
226	Hale	at H. D. Chapin's	Chapman	4 "	66	"
227	Hale	near A. Larcom estate	Chapman	6 "	69	"
228	Hale	near C. H. Tweed's Ave.	Boston Machine Co. (Carr Pat.)	4 "	63	"
229	Hale	near E. Morse estate on Malt Hill	R. D. Wood & Co.	4 "	58	"
230	Hale	at G. H. Lyman's	Coffin (Walker Pat.)	6 "	64	"
231	Hardy	at Pleasant St.	Chapman	6 "	58	"
232	Hart	at Hale St.	Coffin (Walker Pat.)	6 "	57	"
233	Hart	near J. Larcom estate	Boston Machine Co. (Carr Pat.)	4 "	56	"
234	Hart	near B. Williams estate	Coffin (Walker Pat.)	6 "	51	"
235	Hart	near J. Young estate	R. D. Wood & Co.	6 "	47	"
236	Hart	at Connolly Bros.	Chapman	6 "	51	"
237	Hart	at Mrs. W. A. Russell's	R. D. Wood & Co.	6 "	50	"
238	Hart	at Preston Place	Chapman	4 "	47	"
239	Harrison Ave.	near Pierce Ave.	Chapman	4 "	40	"
240	Haskell	at Hale St.	R. D. Wood & Co.	6 "	55	"
241	Haskell	at J. T. Wilson's	Chapman	6 "	55	"
242	Haskell	near Mrs. C. Reardon's	R. D. Wood & Co.	6 "	63	"
243	Herrick	near M. B. Avery estate	Chapman	6 "	67	"
244	Herrick	near E. Standley's	Coffin	4 "	59	"
245	High	near J. M. Publicover's	R. D. Wood & Co.	4 "	51	"
246	Highland Ave.	at Norwood estate	Coffin (Walker Pat.)	6 "	47	"
247	Hull	at Essex St.	Chapman	4 "	47	"
248	Hull	near H. Appleton's	Chapman	6 "	46	"
249	Hull	near E. F. Dunn's	Chapman	4 "	46	"
250	Hull	on end of 6 in. cast iron	Chapman	6 "	46	"
251	James	at George Todd's	R. D. Wood & Co.	6 "	48	"
252	Jasper	near Cliff St.	Chapman	4 "	56	"
253	Judson	near Mulberry St.	Chapman	4 "	62	"
254	Kernwood Ave.	at E. Lothrop's	Boston Machine Co.	6 "	53	"
255	Lake View Ave.	at Lake Side Ave.	Chapman	4 "	50	"
256	Lenox	near Cabot St.	Chapman	4 "	59	"
257	Linden Ave.	near W. Cree estate	Coffin	4 "	51	"
258	Lothrop	near P. J. Crowell's	Coffin (Walker Pat.)	6 "	61	"
259	Lothrop	at Wilson Ave.	Coffin (Walker Pat.)	6 "	58	"
260	Lothrop	near Central St.	Coffin (Walker Pat.)	6 "	59	"
261	Lothrop	near Thorndike St.	R. D. Wood & Co.	6 "	50	"
262	Lothrop	at Hale St.	Chapman	6 "	60	"
263	Lothrop	at Bisson St.	Chapman	4 "	58	"
264	Lovett	near May St.	Coffin (Walker Pat.)	6 "	56	"
265	Lovett	at Central St.	R. D. Wood & Co.	4 "	56	"
266	Lovett	at Washington St.	Coffin (Walker Pat.)	6 "	55	"
267	Lovett	at Thorndike St.	Chapman	6 "	52	"
268	Lovett	at Abbott St.	Chapman	6 "	57	"
269	Lovett	at Atlantic Ave.	Chapman	6 "	56	"
270	Lovett	at Ives St.	Chapman	6 "	60	"
271	Lovett	at Dane St.	Chapman	6 "	60	"
272	Lovett	near Bay St.	Chapman	4 "	63	"
273	Lowell	at Essex St.	R. D. Wood & Co.	6 "	52	"
274	Lyman	near M. F. Buckley's	Coffin(Walker Pat.)	6 "	59	"
275	Madison Ave.	near J. W. Blackmer's	R. D. Wood & Co.	6 "	45	"
276	Marsh Ave.	at C. H. Forsblom's	Chapman	6 "	73	"
277	Mason		R. D. Wood & Co.	6 "	69	"
278	McKay	at Glidden St.	Coffin (Walker Pat.)	6 "	61	"
279	McKay	at Blake St.	Coffin (Walker Pat.)	6 "	61	"
280	McKay	at Sturtevant St.	Coffin (Walker Pat.)	6 "	61	"
281	McKay	at Matthies St.	Coffin (Walker Pat.	6 "	60	"
282	McKay	at Goodyear St.	Coffin (Walker Pat.)	6 "	59	"
283	McKay	at Balch St.	Coffin (Walker Pat.)	6 "	57	"
284	McKinley Ave.		Coffin (Walker Pat.)	6 "	42	"
285	Mulberry	near Pond St.	Boston Machine Co. (Carr Pat.)	4 "	57	"
286	Myrtle		R. D. Wood & Co.	6 "	55	"
287	Neptune	near Bay View Ave.	Chapman	4 "	62	"

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No.	Street	Location	Make	Size	Pressure	Kind
288	Neptune	near Pickman estate	Chapman	4 in.	61	Post
289	Oak	near West St.	R. D. Wood & Co.	6 "	61	"
290	Oak	at Connolly Bros.' stable	Coffin (Walker Pat.)	6 "	67	"
291	Oak	near Grove St.	Coffin	6 "	60	"
292	Ober	at Hale St.	Coffin	6 "	61	"
293	Ober	near N. F. Greeley's	R. D. Wood & Co.	4 "	61	"
294	Ober	at Woodbury St.	Boston Machine Co.	4 "	59	"
295	Ober	near D. L. Foster estate	R. D. Wood & Co.	4 "	58	"
296	Ober	at W. D. Sohier's Ave.	Coffin (Walker Pat.)	6 "	60	"
297	Ocean	near Hale St.	Chapman	6 "	60	"
298	Ocean	near Lovett St.	Chapman	6 "	60	"
299	Odell Ave.	opposite McKinley Ave.	R. D. Wood & Co.	6 "	61	"
300	Odell Ave.	near Bertram St.	Chapman	6 "	56	"
301	Paine Place	at J. W. Wheelwright's	Chapman	6 "	55	"
302	Paine Place	opposite W. H. Moore's	Boston Machine Co.	4 "	64	"
303	Paine Place	at H. C. Pierce's	Coffin (Walker Pat.)	6 "	60	"
304	Paine Place	near F. L. Higginson's	Newport Mfg. Co.	4 "	42	"
305	Paine Place	at C. W. Loring's	Chapman	4 "	57	"
306	Paine Place	at Paine's stable	Chapman	6 "	59	"
307	Paine Place	at Cummings' stable	Chapman	6 "	59	"
308	Park	at Railroad Ave.	Lowry		66	Flush
309	Park	near Broadway	Chapman	6 "	66	Post
310	Park	near Wallis St.	Chapman	6 "	66	"
311	Park	at Bow St.	Lowry		67	Flush
312	Park	at C. H. Creesy's	Chapman	6 "	68	Post
313	Park	at Federal St.	Lowry		70	Flush
314	Park	at G. H. Allen factory	Chapman	4 "	72	Post
315	Park	near Dexter's mill	Chapman	6 "	71	"
316	Park	at Creek St.	Coffin (Walker Pat.)	6 "	69	"
317	Park	at City stables	Chapman	6 "	68	"
318	Park	at Elliott St.	Coffin (Walker Pat.)	6 "	72	"
319	Peabody Ave.	near Essex St.	R. D. Wood & Co.	4 "	46	"
320	Peabody Ave.	near M. E. Ellis'	Coffin (Walker Pat.)	6 "	24	"
321	Pearl	near Warren St.	Coffin (Walker Pat.)	6 "	58	"
322	Pearson	at Blake St.	Coffin (Walker Pat.)	6 "	55	"
323	Pearson	at Sturtevant St.	Coffin (Walker Pat.)	6 "	55	"
324	Pickett	near schoolhouse	Coffin	6 "	46	"
325	Pierce Ave.	near E. W. Rogers'	Coffin	4 "	50	"
326	Pleasant	near Phillips Ct.	Chapman	4 "	61	"
327	Porter	near School St.	R. D. Wood & Co.	4 "	58	"
328	Porter	at A. Yass estate	Coffin (Walker Pat.)	6 "	54	"
329	Prides Hill Ave.	near H. P. McKean's	Boston Machine Co.	4 "	8	"
330	Prince	at Hale St.	Coffin (Walker Pat)	6 "	58	"
331	Prince	near W. P. Mason estate	R. D. Wood & Co.	6 "	64	"
332	Prince	near C. T. Parker's	R. D. Wood & Co.	6 "	62	"
333	Private way to U.S.M.Co.	from Cabot St.	Coffin (Walker Pat.)	6 "	68	"
334	Prospect	near A. J. Cheney's	Chapman	4 "	36	"
335	Railroad Ave.	near W. S. Flint's	Chapman	6 "	48	"
*336	Railroad Ave.	at Rantoul St.	Lowry		65	Flush
337	Railroad Ave.	at Rantoul St.	Chapman	6 "	64	Post
338	Railroad Ave.	at Park St.	Chapman	6 "	64	"
339	Rantoul	at Cabot St., south	Lowry		65	Flush
340	Rantoul	at School St.	Lowry		65	"
341	Rantoul	at Edwards St.	Lowry		57	"
342	Rantoul	at Edwards St.	Coffin (Walker Pat.)	8 "	57	Post
343	Rantoul	near B.B.A. factory	Lowry		64	Flush
344	Rantoul	near Broadway	Coffin (Walker Pat.)	4 "	60	Post
345	Rantoul	at Bow St.	Chapman	8 "	63	"
346	Rantoul	at Bow St.	Lowry		62	Flush
347	Rantoul	at Federal St.	Lowry		67	"
348	Rantoul	at Federal St.	Chapman	6 "	64	Post
349	Rantoul	at Crosby block	Lowry		68	Flush
350	Rantoul	at Crosby block	Chapman	8 "	69	Post
351	Rantoul	near Creek St.	Coffin (Walker Pat.)	6 "	65	"
352	Rantoul	at Roundy St.	Lowry		63	Flush
353	Rantoul	at Elliott St.	Chapman	8 "	68	Post
354	Rantoul	at Elliott St.	Lowry		66	Flush
355	Rantoul	at Myrtle St.	Boston Machine Co. (Carr Pat.)	6 "	66	Post
356	Raymond Ave.		Chapman	6 "	52	"
357	River	at Webber Ave.	Coffin (Walker Pat.)	6 "	63	"
358	River	at Beverly G.&E.Co.	R. D. Wood & Co.	4 "	71	"
359	River	opposite Cameron Car. Co	Boston Machine Co. (Carr Pat.)	6 "	69	"

* Connected with Salem 20 in. only.

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No.	Street	Location	Make	Size	Pressure	Kind
360	River	at Bridge St.	Coffin	4 in.	69	Post
361	River	near Federal St.	R. D. Wood & Co.	4 "	69	"
362	Riverside	at Lawrence Court	Chapman	6 "	65	"
363	Roosevelt Ave.		Chapman	4 "	59	"
364	Roundy	near Mechanic St.	Coffin (Walker Pat.)	6 "	60	"
365	Roundy	at Water Dept. shop	Coffin	4 "	70	"
366	Rowell Ave.	near D. Dolloff's	Coffin (Walker Pat.)	6 "	50	"
367	Rowell Ave.	near J. E. Soper's	Chapman	6 "	53	"
368	School	at Cox Ct.	Chapman	4 "	57	"
369	Simon		R. D. Wood & Co.	6 "	62	"
370	Standley	at G. Osborne's	R. D. Wood & Co.	4 "	48	"
371	Standley	near C. Elliott's	R. D. Wood & Co.	6 "	44	"
372	Standley	at Essex St.	R. D. Wood & Co.	4 "	47	"
373	Stone	near schoolhouse	Coffin (Walker Pat.)	6 "	59	"
374	Stone	near A. C. Stevens' estate	Boston Machine Co.	4 "	58	"
375	Summer	at Chase St.	Coffin (Walker Pat.)	6 "	59	"
376	Swan	near E. Ames'	Chapman	6 "	62	"
377	Sylvester	near E. M. Bates' estate	R. D. Wood & Co.	6 "	55	"
378	Thissell	near Hale St.	Boston Machine Co. (Carr Pat.)	6 "	57	"
379	Thissell	near J. F. Curtis'	Whittier Machine Co.	6 "	52	"
380	Trask	near A. Swift's	Chapman	4 "	52	"
381	Tremont	at Ellsworth Ave.	R. D. Wood & Co.	6 "	56	"
382	Union	near No. 15	Chapman	6 "	54	"
383	Valley	near C. Storrow's	Boston Machine Co.	4 "	61	"
384	Vine	at Lomasney's market	Chapman	6 "	56	"
385	Wallis	at J. H. Preston's	R. D. Wood & Co.	4 "	53	"
386	Wallis	near C. Kimball's	R. D. Wood & Co.	4 "	57	"
387	Walnut	at Laurel St.	Coffin	6 "	48	"
388	Washington	near Mrs. F. Webber's	Chapman	6 "	54	"
389	Washington	opposite Brown St.	Boston Machine Co.	4 "	54	"
390	Washington	at Lothrop St.	Boston Machine Co.	4 "	58	"
391	Water	at Pickett Coal Co.	Coffin (Walker Pat.)	8 "	70	"
392	Water	at Foster's Wharf	Coffin (Walker Pat.)	8 "	71	"
393	Water	at John Girdler's	Coffin (Walker Pat.)	8 "	71	"
394	Water	at Gulf Refining Co.	Chapman	8 "	72	"
395	Water	at Lothrop St.	Lowry		71	Flush
396	Water	at Silver Ct.	R. D. Wood & Co.	4 "	72	Post
397	Webster	near Haskell St.	R. D. Wood & Co.	4 "	56	"
398	Webster	at Greenwood Ave.	Boston Machine Co.	4 "	60	"
399	Wellman	opposite Linden Ave.	Coffin (Walker Pat.)	6 "	56	"
400	Wellman	at School St.	Coffin (Walker Pat.)	6 "	59	"
401	Wellman	at Webber Ave.	Coffin (Walker Pat.)	6 "	57	"
402	West	at E. Standley's	R. D. Wood & Co.	6 "	58	"
403	West	near F. Haven's Estate	R. D. Wood & Co.	6 "	61	"
404	West	near E. W. Perkins'	R. D. Wood & Co.	4 "	69	"
405	West	at Beach St.	Chapman	6 "	68	"
406	West	near H. Lee's ave.	R. D. Wood & Co.	6 "	73	"
407	West Dane	opposite Mulberry St.	Coffin (Walker Pat.)	6 "	62	"
408	Western Ave.		R. D. Wood & Co.	6 "	52	"
409	Whitney Ave.	at Odell Ave.	Chapman	6 "	54	"
410	Winthrop Ave.	near Harris St.	Boston Machine Co.	4 "	53	"
411	Winthrop Ave.	near W. Porter estate	Chapman	4 "	49	"
412	Winthrop Ave.	near Bridge St.	Chapman	4 "	65	"
413	Woodbury	at R. Wallace's	Chapman	6 "	60	"
414	Woodland Ave.	at H. S. Woodberry's	Coffin (Walker Pat.)	6 "	54	"

TOTAL NUMBER PUT IN TO DATE BY PRIVATE PARTIES

No.	Street	Location	Make	Size	Pressure	Kind
415	Cabot	at Sprague, Breed & Brown Co.'s	Chapman	6 in.	70	Post
416	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
417	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
418	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
419	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
420	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
421	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
422	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
423	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
424	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
425	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
426	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
427	Off Cabot	at United Shoe Mch. Co.	Chapman	6 "	75	"
428	Cabot	in Mrs. J. C. Phillips' estate near house	Coffin	4 "	55	"

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No.	Street	Location	Make	Size	Pressure	Kind
429	Cabot	in Mrs. J. C. Phillips' estate near stable	Coffin	4 in.	55	Post
430	Cabot	in Mrs. J. C. Phillips' estate near avenue	Chapman	4 "	46	"
431	Cabot	in Mrs. J. C. Phillips' estate near mansion	Chapman	4 "	42	"
432	Off Conant	at Cherry Hill farm	Chapman	4 "	7	"
433	Dodge	at A. Lawrence's	Chapman	4 "	54	"
434	Dodge	at A. Lawrence's	Chapman	4 "	45	"
435	Elliott	at United Shoe Mch. Co.	Chapman	6 "	65	"
436	Elliott	at United Shoe Mch. Co.	Chapman	6 "	70	"
437	Elliott	at U.S.Mch.Co. Foundry	Chapman	6 "	70	"
438	Hale	at C. H. Tweed's stable	Chapman	4 "	35	"
439	Hale	at H. C. Frick's	Chapman	4 "	51	"
440	Hale	at H. C. Frick's	Chapman	4 "	51	"
441	Off Hale	at H. C. Frick's	Chapman	4 "	31	"
442	Hale	on Haven est., near Bradley	Coffin (Walker Pat.)	4 "	58	"
443	Off Hart	at L. A. Shaw est., near house	Eddy Valve Co.	4 "	47	"
444	Off Hart	at L. A. Shaw est., in field	Eddy Valve Co.	4 "	47	"
445	Herrick	at Beverly Hospital	Coffin (Walker Pat.)	4 "	40	"
446	Herrick	at Beverly Hospital	Coffin (Walker Pat.)	4 "	40	"
447	Ober	in R. D. Evans' estate	Coffin (Walker Pat.)	4 "	69	"
448	Ober	in R. D. Evans' estate	Chapman	4 "	68	"
449	Paine Place	at R. S. Bradley's house	Chapman	4 "	40	"
450	Paine Place	at R. S. Bradley's stable	Chapman	4 "	43	"
451	Paine Place	at F. G. Dexter's house	Chapman	4 "	62	"
452	Paine Place	at F. G. Dexter's stable	Chapman	4 "	48	"
453	Paine Place	at Sargent estate	Chapman	4 "	62	"
454	Paine Place	at W. B. Thomas' house	Coffin	4 "	59	"
455	Paine Place	at W. B. Thomas' stable on hill	R. D. Wood & Co.	4 "	50	"
456	Paine Place	at W. B. Thomas' stable near B &M.R.R.	R. D. Wood & Co.	4 "	55	"
457	Paine Place	at L. P. Ahl's	Chapman	6 "	60	"
458	Paine Place	at W. H. Moore's	Chapman	4 "	59	"
459	Paine Place	at E. C. Swift's house	Chapman	4 "	57	"
460	Paine Place	at E. C. Swift's stable	Chapman	4 "	66	"
461	Paine Place	at King and Spaulding's stable	Chapman	6 "	45	"
462	Paine Place	near H. P. King's house	Chapman	6 "	58	"
463	Paine Place	at F. Ayer's	R. D. Wood & Co.	4 "	58	"
464	Rantoul	at Tuft's estate	Chapman	4 "	62	"
465	Rantoul	at Fayette St.	Chapman	4 "	59	"
466	West	in Haven's est., near stable	Ludlow Mfg. Co.	4 "	65	"
467	West	in Haven's est., near house	Ludlow Mfg. Co.	4 "	63	"
468	West	at Mrs. Leiter's estate	Eddy Valve Co.	4 "	61	"
469	West	at H. Lee estate	Chapman	6 "	70	"

NEW HYDRANTS ADDED DURING THE YEAR 1912

No.	Street	Location	Make	Size	Pressure	Kind
6	Back	rear South School	Chapman	6 in.	56	Post
21	Beckford	near A. P. Spiller's	Chapman	6 "	61	"
23	Beckford	corner Cabot St.	Chapman	6 "	58	"
25	Bisson	at Essex St.	Chapman	4 "	46	"
30	Bosworth		Chapman	6 "	58	"
50	Cabot	opposite Frost Box Co.	Chapman	6 "	63	"
51	Cabot	at Davis St.	Chapman	6 "	59	"
89	Chapman	at Federal St.	Chapman	6 "	52	"
157	Essex	near Catholic Church	Chapman	6 "	47	"
168	Essex	near Geo. Wightman's	Chapman	6 "	44	"
184	Gage	corner Mill St.	Chapman	6 "	64	"
185	Giddings Ave.	at Whitney Ave.	Chapman	6 "	46	"
250	Hull	on end of 6 in. cast iron	Chapman	6 "	46	"
267	Lovett	at Thorndike St.	Chapman	6 "	52	"
269	Lovett	at Atlantic Ave.	Chapman	6 "	56	"
270	Lovett	at Ives St.	Chapman	6 "	60	"
271	Lovett	at Dane St.	Chapman	6 "	60	"
300	Odell Ave.	near Bertram St.	Chapman	6 "	56	"
337	Railroad Ave.	at Rantoul St.	Chapman	6 "	64	"
338	Railroad Ave.	at Park St.	Chapman	6 "	64	"
382	Union	near No. 15	Chapman	6 "	54	"
408	Western Ave.		R. D. Wood & Co.	6 "	52	"

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No.	Street	Location	Make	Size	Pressure	Kind
413	Woodbury	at R. Wallace's	Chapman	6 in.	60	Post
415	Cabot	at Sprague, Breed & Brown Co.'s	Chapman	6 "	70	"
430	Cabot	at Mrs. J. C. Phillips' estate near avenue	Chapman	4 "	46	"
431	Cabot	at Mrs. J. C. Phillips' estate near mansion	Chapman	4 "	42	"
436	Elliott	at United Shoe Mch. Co.	Chapman	6 "	70	"
437	Elliott	at U.S.Mch.Co. Foundry	Chapman	6 "	70	"
444	Off Hart	at L. A. Shaw est., in field	Eddy Valve Co.	4 "	47	"
453	Paine Place	at Sargent estate	Chapman	4 "	62	"
461	Paine Place	at King and Spaulding's stable	Chapman	6 "	45	"
462	Paine Place	at H. P. King's house	Chapman	6 "	58	"
469	West	at H. Lee estate	Chapman	6 "	70	"

HYDRANTS DISCONTINUED DURING THE YEAR 1912

Street	Location	Make	Size	Pressure	Kind
Cabot	at School, Davis and Stone Sts.	Lowry		66	Flush

Table No. XIII

Statement showing the location of and change in hydrants during the year 1912.

No.	Street	Location	Change
167	Essex	near A. J. Osborne's	Took out 4 in. Boston Machine Co. Set 6 in. Chapman
220	Hale	at J. B. Dow's greenhouse	Took out 6 in. Coffin Set 6 in. Chapman
231	Hardy	at Pleasant St.	Took out 4 in. Boston Machine Co. Set 6 in. Chapman
268	Lovett	at Abbott St.	Took out 4 in. Boston Machine Co. Set 6 in. Chapman
376	Swan	near E. Ames'	Took out 4 in. Coffin Set 6 in. Chapman
448	Ober	in R. D. Evans' estate	Took out 4 in. Coffin Set 4 in. Chapman

Table No. XIV

Total number of hydrants in use January 1, 1913.

	Post	Lowry	Total
Number in use January 1, 1912	419	18	437
Set during the year 1912	33		33
	452	18	470
Discontinued during year 1912		1	1
	452	17	469

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Table No. XV

Statement showing the number and make of hydrants in use December 31, 1913.

	Post	
Boston Machine Co.	42	
Chapman	187	
Coffin	133	
Eddy Valve Co.	3	
Ludlow Manufacturing Co.	2	
Newport Manufacturing Co.	1	
Whittier Machine Co.	6	
R. D. Wood & Co.	78	
	—	452
	Flush	
Lowry	17	
	—	17
Total		469

Table No. XVI

Statement showing the number and location of standpipes in use in the city during the year 1912.

No.	Street	Location
1	Abbott	Near Lothrop St.
2	Bartlett	At Cabot St.
3	Beach	At Hale St.
4	Boyles	At Hale St.
5	Boyles	At Miss K. Silsbee's
6	Broadway	Near Rantoul St.
7	Cabot	At Water St.
8	Cabot	At Davis St.
9	Cabot	At Thorndike St. (on Thorndike St.)
10	Cabot	At Chestnut St.
11	Cabot	At Colon St.
12	Cabot	At Swan St.

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No.	Street	Location
13	Cabot	At B. N. Dodge estate
14	Cabot	Opposite Winslow estate
15	Cabot	At Dodge St.
16	Conant	At Dodge St.
17	Creek	Near Rantoul St.
18	Dane	Near Cabot St.
19	Dodge	At Enon St.
20	Enon	At B.&M.R.R. ice tracks
21	Enon	At Wilson St.
22	Hale	At Ocean St.
23	Hale	At Woodbury St.
24	Hale	At Dexter Park
25	Hale	Near Mrs. Cabot's estate
26	Hale	At Thissell St.
27	Hale	At Everett St.
28	Hale	At Hart St.
29	Hale	At Asa Larcom estate
30	Hale	At Malt Hill
31	Hart	At Mrs. Luke's
32	Hart	At Connolly's pit
33	Haskell	At Hale St.
34	Haskell	At Cemetery
35	Lothrop	Near Stone St.
36	Lothrop	At Central St.
37	Lothrop	At Ives St.
38	Lothrop	At Hale St.
39	Lovett	Near May St.
40	Lovett	Near Thorndike St.
41	McKay	At Blake St.
42	McKay	At Matthies St.
43	McKay	At Goodyear St.
44	Oak	At Dow's wood and coal yard
45	Ober	Near Woodbury St. (not in use)
46	Park	Near Wallis St.
47	Prince	Near Hale St.
48	Railroad Ave.	At Elm St.
49	Rantoul	At School St.
50	Rantoul	At Pleasant St.
51	Rantoul	At Federal St.

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No	Street	Location
52	Rantoul	Near Summer St.
53	Somerset	Near Dodge St.
54	Thissell	At B.&M.R.R. crossing (not in use)
55	Thissell	At Common Lane
56	Thorndike	At Cabot St. (not in use)
57	West	At Haven's Cottage
58	West	At West Beach
59	Winter	At Cabot St.

PUT IN BY PRIVATE PARTIES

No.	Street	Location
60	Paine Place	At H. C. Pierce's
61	Paine Place	At the Misses Paine's (not in use)
62	Paine Place	At R. S. Bradley's

TABLE NO. XVII

Statement showing the number and location of drinking fountains in use in the city, December 31, 1912.

No.	Street	Location
1	Boyles	At Hale St.
2	Brimbal Ave.	At Essex St.
3	Cabot	At Water St.
4	Cabot	At Baptist Church (private)
5	Cabot	At Essex St.
6	Dodge	At Conant St.
7	Hale	At Chapman's Corner
8	Hale	At Hart St.
9	Hale	At West St.
10	Hart	At Preston Place
11	Hull	At Essex St.
12	Lothrop	At Dane St. Park
13	Rantoul	At Pond St.
14	Rantoul	At Cabot St.

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Table No. XVIII

Statement showing the number and kind of meters in use December 1, 1912.

Kind	6 in.	4 in.	3 in.	2 in.	1½ in.	1 in.	¾ in.	⅝ in.	Total
Crown	2	6	9	24	29	4	—	2	76
Empire	—	—	—	—	7	8	8	12	35
Hersey	—	—	—	5	17	20	23	23	88
Keystone	—	—	—	—	—	—	—	1	1
King	—	—	—	—	—	—	—	2	2
Lambert	—	—	—	—	—	1	—	—	1
Nash	—	—	—	—	—	5	—	1	6
Trident	—	—	—	—	1	—	—	8	9
Union	—	—	—	—	5	2	—	—	7
Watch Dog	—	—	—	—	—	—	—	1	1
Weir	—	—	—	—	—	1	—	—	1
Worthington	—	—	1	9	26	174	—	289	499
	2	6	10	38	85	215	31	339	726

Table No. XIX

Statement showing the location and extent of repairs made on the main pipe during the year 1912.

Date	Location	Size	How Repaired
Aug. 3	Abbott St. near No. 32	4 in.	7 ft. cast iron pipe
July 8	Arthur St. at Mulberry St.	4 "	split sleeve
Mar. 27	Balch St. at McKay	12 "	joint wound
Mar. 5	Bartlett Garden	2 "	3 ft. pipe
June 22	Bartlett Garden	2 "	wound
Dec. 18	Bartlett Garden	2 "	19 ft. pipe
Dec. 19	Bartlett Garden	2 "	23 ft. pipe
Dec. 31	Bartlett Garden	2 "	22 ft. pipe
Dec. 31	Bartlett Garden	2 "	union
Mar. 12	Boyles St. at G. Mandell's avenue	4 "	cement wound
Mar. 28	Boyles St. near K. Silsbee's	4 "	cement wound
May 3	Boyles St. near K. Silsbee's	4 "	7 ft. cast iron pipe
Sept. 25	Brackenbury St. near H. F. Sears'	4 "	5 ft. c.i. pipe, sleeve
May 7	Bridge St. near Virginia Ave.	6 "	cement wound
July 30	Bridge St. opposite Chapel	6 "	5 ft. c.i. pipe, branch
Dec. 4	Bridge St. near Giles Ave.	6 "	cement wound
Jan. 3	Cabot St. near No. 676	4 "	cement wound
Jan. 18	Cabot St. near No. 688	4 "	cement wound
June 5	Cabot St. near No. 688	4 "	cement wound
Sept. 21	Cabot St. near Mrs. J. C. Phillips'	4 "	sleeve
Dec. 10	Cabot St. at Water St.	6 "	joint recalked
Dec. 16	Cabot St. at No. 676	4 "	cement wound
Dec. 16	Cabot St. at No. 676	4 "	cement wound
Feb. 13	Chapman St. at Federal St.	4 "	cement wound
July 12	Chapman St. at Chapman Ct.	4 "	cement wound
July 13	Chapman St. at Chapman Ct.	4 "	7 ft. cast iron pipe
Mar. 25	Cole St. near Thompson's	13 "	split sleeve

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Date	Location	Size	How Repaired
July 20	Colon St. near Mrs. Peabody's avenue	12 in.	12½ ft. pipe
Aug. 15	Colon St. near Mrs. Peabody's avenue	12 "	split sleeve
Aug. 21	Colon St. at Spring St.	6 "	sleeve
Oct. 18	County Way near Elliott St.	6 "	4 ft. cast iron pipe
Jan. 8	Cox Ct. near No. 16	4 "	cap
Jan. 18	Cox Ct. near No. 16	4 "	cap
Feb. 4	Cox Ct. near S. B. & B.'s stable	4 "	7 ft. cast iron pipe
Jan. 1	Creek St. near Carter's Oil Factory	6 "	iron cap
April 5	Crescent Ave. near R. Robertson's	1 "	3 ft. pipe
April 5	Crescent Ave. near R. Robertson's	1 "	2 unions
Dec. 21	Cressy St. at Elliott St.	6 "	cement wound
Mar. 9	Dane St. near No. 18	6 "	cement joint wound
Aug. 28	Dodge St. near No. 266	4 "	cement wound
Sept. 30	Dodge St. near No. 135	4 "	7 ft. cast iron pipe
Nov. 22	Echo Ave. near Elliott St.	2 "	4 ft. pipe, union
Dec. 3	Echo Ave. near Elliott St.	2 "	union
Apr. 8	Elliott St. near Northern Ave.	6 "	cement joint wound
Oct. 29	Elliott St. at County Way	6 "	cement wound
Oct. 29	Elliott St. at County Way	6 "	cement wound
Dec. 6	Elliott St. near County Way	6 "	8 ft. cast iron pipe
May 31	Essex St. at Hull St.	4 "	cement wound
May 31	Essex St. at Hull St.	4 "	cement wound
May 31	Essex St. at Hull St.	4 "	cement wound
June 9	Essex St. at Hull St.	4 "	cement wound
July 12	Essex St. near Patch's corner	4 "	cement wound
Aug. 22	Essex St. at Centerville School	4 "	cement wound
Aug. 27	Essex St. at Corning St.	6 "	cap
Nov. 2	Essex St. near Daniel Appleton's	4 "	8 ft. cast iron pipe
Nov. 15	Essex St. near Wm. Patch's	4 "	7 ft. cast iron pipe
Nov. 16	Essex St. near No. 486	4 "	7 ft. cast iron pipe
Nov. 17	Essex St. near No. 500	4 "	7 ft. cast iron pipe
May 15	Foster's Point	1 "	union
Jan. 30	Front St. near Davis St.	4 "	7 ft. cast iron pipe
April 8	Gage St. near No. 6	6 "	cement joint wound
June 20	Hale St. near Tweed's avenue	6 "	22 ft. cast iron pipe
Aug. 16	Home St. at Ashland St.	4 "	7 ft. cast iron pipe
May 31	Hull St. near H. Appleton's	4 "	cement wound
June 2	Hull St. near H. Appleton's	4 "	cement wound
June 2	Hull St. near H. Appleton's	4 "	cement wound
June 2	Hull St. near H. Appleton's	4 "	cement wound
July 12	Hull St. at Essex St.	4 "	cement wound
Sept. 12	Jasper St. near Linden Ave.	4 "	split sleeve
Jan. 20	Kernwood Ave. at Bridge St.	6 "	split sleeve
Mar. 16	Kernwood Ave. near Raymond's	6 "	plug
Nov. 20	Lothrop St. at Bisson St.	6 "	split sleeve
April 15	Lovett St. at Thorndike St.	4 "	cement wound
July 11	Lovett St. at Abbott St.	4 "	cement wound
July 11	Lovett St. at Abbott St.	4 "	cement wound
July 11	Lovett St. at Abbott St.	4 "	cement wound
July 11	Lovett St. at Abbott St.	4 "	cement wound
April 12	McKay St. near Matthies St.	12 "	joint recalked
Nov. 19	Paine Place near F. Ayer's	4 "	7 ft. cast iron pipe
Nov. 22	Paine Place near Spaulding's garage	4 "	7 ft. cast iron pipe
Nov. 26	Paine Place opposite F. Ayer's	4 "	7 ft. cast iron pipe
Nov. 26	Paine Place opposite F. Ayer's	4 "	7 ft. cast iron pipe
Jan. 1	Peabody Ave. opposite E. E. Gaylord's garden	6 "	cast iron wound
Aug. 31	Pond St. near Chase St.	6 "	8 ft. cast iron pipe
Nov. 3	Pond St. opposite No. 17	4 "	7 ft. cast iron pipe
May 21	Putnam Lane	¾ "	pipe and union
Jan. 17	School St. near No. 31	4 "	7 ft. cast iron pipe
Mar. 19	School St. near No. 31	4 "	cement wound
April 12	School St. near No. 37	4 "	7 ft. cast iron pipe
Mar. 8	Smith St.	2 "	3 ft. pipe
Oct. 3	Stewart Ave. near Elliott St.	6 "	2 ft. cast iron pipe
Feb. 24	Thissell St. near Pierson's	2 "	valve
Aug. 1	Thorndike St. near Brown St.	4 "	cement wound
Aug. 2	Thorndike St. near Brown St.	4 "	7 ft. cast iron pipe
Nov. 25	Thorndike St. near Endicott St.	4 "	7 ft. cast iron pipe
April 20	Valley St. near Storrow's Ave.	4 "	7 ft. cast iron pipe
April 23	Valley St. near Storrow's Ave.	4 "	cement wound
Jan. 1	Wallis St. at No. 44	4 "	cement wound
May 29	Woodbury St. near Hale St.	4 "	cement wound

Total leaks, 99

Note.—A portion of Agate St., Linden Ave. and Cliff St. was relaid on account of breaks in the mains in these streets. These leaks do not show in the above table.

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SUMMARY OF STATISTICS

FOR THE YEAR ENDING DECEMBER 31, 1912

(In form recommended by the New England Water Works Association).

BEVERLY WATER WORKS

GENERAL STATISTICS

Population of 1912, 20,021.

Date of construction, 1869—1885.

By whom owned, City of Beverly.

Source of supply: Wenham Lake and Longham Reservoir.

Mode of supply (whether gravity or pumping): Pumping.

PUMPING STATISTICS

Builders of pumping machinery: Holly Manufacturing Co.

Description of fuel used:

(*a*) Kind, soft. (*b*) Brand of coal, George's Creek. (*c*) Average price of coal per gross ton, delivered, $5.06½. (*d*) Percentage of ash, 9.8.

Coal consumed for the year, 1,781,242 lbs.

Total pumpage for the year, 675,706,457 gallons, without allowance for slip.

Average static head against which pumps work, 128 ft.

Average dynamic head against which pumps work, 149 ft.

Number of gallons pumped per pound of equivalent coal (5), 386.3.

RECEIPTS

From Water Rates:		
Fixture rates	$44,786 95	
Meter rates	21,636 66	
For miscellaneous uses	735 23	
Total		$67,158 84
Received on accounts due previous to 1912:		
Fixture rates	$32 88	
Meter rates	5,194 32	
Pipe and incidentals	22 71	
		$5,249 91
Total		$72,408 75

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EXPENDITURES

Water Works Maintenance:		
Operation (management and repairs) ..	$20,000 00	
Special:		
Salaries.....	6,524 00	
Water Works Construction:		
Extension of mains, and extension of services.....	$15,000 00	
Extension of meters.....	4,989 71	
Special:		
Auto truck.....	2,496 67	
Unclassified expenses:		
Reconstruction.....	13,997 64	
Total expenditures.....		$63,008 02

Net cost of works to date (estimated).....	$630,671 22
Bonded debt at date.....	225,000 00
Value of Sinking Fund at date.....	124,063 06

Average rate of interest, 4 per cent.

STATISTICS OF CONSUMPTION OF WATER

Estimated total population at date, 20,021.
Estimated population on lines of pipe, 20,021.
Estimated population supplied, 20,021.
Total consumption for the year, 675,706,457 gallons.
Passed through meters, 189,155,865 gallons.
Percentage of consumption metered, .279+.
Average daily consumption, 1,851,250 gallons.
Gallons per day to each inhabitant, 92.8.
Gallons per day to each consumer, 92.8.
Gallons per day to each tap, 383.

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STATISTICS RELATING TO DISTRIBUTION SYSTEM

Mains

Kind of pipe, cast iron, cement lined.
Sizes, from 24 in. to 1½ in.
Extended 24,870.6 ft. during year.
Discontinued 14,347.6 ft. during year.
Total now in use, 79.721 miles.
Number of leaks per mile, 1.2.
Number of hydrants added during year (public and private), 33.
Number of hydrants (public and private) now in use, 469.
Number of stop gates added during year, 26.
Number of stop gates now in use, 772.
Range of pressure on mains, to 72 lbs.

Services

Kind of pipe, galvanized wrought iron.
Sizes, ¾ in. to 3 in.
Number of service taps added during year, 150.
Number now in use, 4,779.
Average length of service, 24.4 ft.
Average cost of service for the year, $16.34.
Number of meters added, 348.
Number now in use, 726.
Percentage of services metered, 15 per cent.
Percentage of receipts from metered water (B÷C), 37 per cent.

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY AUDITOR

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MARCH 24, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 276, 1913

REPORT OF CITY AUDITOR

To the Honorable Mayor and Board of Aldermen of the City of Beverly:

I have the honor to present herewith an itemized account of the appropriations and expenditures of the City of Beverly for the year ending December 31, 1912, showing also the transfers and unexpended balances.

Respectfully submitted,

HENRY S. PARKER,

City Auditor.

ACCOUNT OF LEGAL SERVICES

Appropriation		$2,929 50
George W. Anderson, legal services	$2,929 50	
		$2,929 50

ADDITIONAL QUARTERS, WEST ST. FIRE STATION

Beverly Times, advertising	$2 50	
J. A. Mayberry, contract	495 00	
		$497 50

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RECAPITULATION

Appropriation		$500 00
Expended	$497 50	
Unexpended balance	2 50	
		$500 00

ADDITIONAL STREET LIGHTS, CABOT ST.

Beverly Gas & Electric Co.	$1,372 55	
		$1,372 55

RECAPITULATION

Appropriation		$1,615 00
Expended	$1,372 55	
Unexpended balance	242 45	
		$1,615 00

ADDITIONAL STREET LIGHTS, SUNDRY STREETS

Appropriation		$1,500 00
Transferred from	$1,500 00	
		$1,500 00

ANNUITY OF MARGARET McLEAN, WIDOW OF DANIEL

Appropriation		$400 00
Expended	$400 00	
		$400 00

ASSISTANCE IN OFFICE OF BOARD OF ASSESSORS

Pearl E. Woodbury	$266 67	
		$266 67

RECAPITULATION

Appropriation		$500 00
Expended	$266 67	
Unexpended balance	233 33	
		$500 00

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BRIDGE LOAN—1909

Appropriation		$3,000 00
Redemption of Bonds, Nos. 7, 8, 9	$3,000 00	
		$3,000 00

BURIAL OF INDIGENT SOLDIERS, SAILORS AND WIDOWS THEREOF

James H. Kendall, burial agent	$8 00	
Samuel A. Gentlee & Son, burials	105 00	
Lee & Cressy, burial	35 00	
		$148 00

Recapitulation

Appropriation		$296 00
Expended	$148 00	
Unexpended balance	148 00	
		$296 00

CELEBRATION OF INDEPENDENCE DAY, 1912

John K. Perry, labor	$2 50	
Ernest E. Wormwood, labor	2 50	
Alfred P. Legro, watching fireworks	2 50	
Hoogerzeil's Express, teaming chairs	1 50	
U.S.M.Co. Band, music, two concerts (22 men)	193 20	
Dane St. Boat Club, permit for fireworks.	75	
Marshall & Moulton Ex. Co., expressing	5 00	
The National Fireworks Mfg. Co., fireworks	290 00	
		$497 95

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RECAPITULATION

Appropriation		$500 00
Expended	$497 95	
Unexpended balance	2 05	
		$500 00

CEMETERY DEPARTMENT—SALARY

Appropriation		$1,000 00
George A. Appleton, superintendent	$1,000 00	
		$1,000 00

CEMETERY DEPARTMENT—CARE OF ENDOWED LOTS

Labor, as per pay roll	$721 79	
Pickett & Goodwin, hose	1 46	
Ezra S. Foster, sod	30 00	
Benj. Larcom & Co., plants, etc.	14 50	
M. Grady & Son, loam	9 00	
Whitcomb-Carter Co., lawn seeder and supplies	15 00	
Ralph W. Ward, plants and labor	15 50	
Salem Plating & Polishing Co., labor	1 50	
Irving F. Gould, supplies	111 75	
Stephen A. Gwinn, loam and gravel	46 50	
Charles Moses, dressing	33 00	
		$1,000 00

RECAPITULATION

Appropriation		$1,000 00
Expended	$1,000 00	
		$1,000 00

CEMETERY DEPARTMENT—GRADING NORTH BEVERLY CEMETERY

S. A. Gwinn, labor, teams and loam	$285 00	
S. A. Gwinn, contract	200 00	
Labor, as per pay roll	15 00	
		$500 00

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RECAPITULATION

Appropriation		$500 00
Expended	$500 00	
		$500 00

CEMETERY DEPARTMENT—GRADING BEVERLY FARMS CEMETERY

Labor, as per pay roll	$18 25	
Stephen A. Gwinn, teams and loam	270 00	
Irving F. Gould, fertilizer	11 75	
		$300 00

RECAPITULATION

Appropriation		$300 00
Expended	$300 00	
		$300 00

CEMETERY DEPARTMENT—MAINTENANCE

Labor, as per pay roll	$3,235 78	
		$3,235 78

INCIDENTALS

New England Tel. & Tel. Co., telephone service	$27 22
Hoogerzeil's Express, expressing	143 00
Marshall & Moulton Ex. Co., expressing	1 25
Preston's Express, expressing	3 50
L. A. Dunn & Co., expressing	1 15
Rogers & Chase, stock and labor	22 50
F. A. E. Hamilton, stock and labor	4 00
Whitcomb-Carter Co., tools, locks, etc.	122 24
Irving F. Gould, tools, mowers, etc.	110 61
Citizen Printing Co., envelopes and printing	48 15
George N. Whitman, repairing fence, etc.	13 00

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C. E. Brown, sharpening drills, etc.	$1 95	
Union Stables, horse hire	38 00	
A. L. Crosby & Co., paint	1 65	
J. J. Harrigan, cement	30 60	
Pickett & Goodwin, hose bibs	3 90	
S. A. Gwinn, team and labor, loam, etc.	373 10	
M. Grady & Son, team and labor	116 75	
George W. Smith, teaming	33 38	
B. Larcom & Co., flowers, etc.	27 69	
Ralph W. Ward, plants and labor	8 00	
Ezra S. Foster, sod	32 50	
A. H. Miller, sod	90	
James B. Dow, plants, etc.	29 50	
H. C. Clarke, plants, etc.	3 00	
Connolly Bros., loam	34 72	
Frank A. Woodbury, loam	13 50	
William Standley, trees, etc.	3 00	
Fottler, Rawson, Fiske & Co., bulbs	40 93	
Gove Lumber Co., lumber, etc.	10 25	
Harper Garage Co., auto service	35 00	
R. E. Henderson & Co., labor	2 30	
John J. Wetherbee, labor	1 75	
Crowley & Lunt, directory	2 50	
Charles E. Curtis, tablets, sockets and foot stones	58 00	
Sprague, Breed & Brown Co., coal	10 80	
George A. Appleton, expenses	99 26	
Leon G. Philinte, canvas	13 50	
William H. Croscup, handcart	30 00	
Arthur P. Curtis, exchange of safe	135 00	
Harlan P. Kelsey, plans	50 00	
Kimball Bros., markers	20 00	
		$1,758 05

RECAPITULATION

Appropriation		$5,000 00
Labor	$3,235 78	
Incidentals	1,758 05	
Unexpended balance	6 17	
		$5,000 00

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CEMETERY IMPROVEMENTS

Labor, as per pay roll	$39 13	
Stephen A. Gwinn, contract	387 08	
Stephen A. Gwinn, team and labor, loam	150 36	
Paul Dore, plants, etc.	375 77	
Connolly Bros., loam	5 04	
George E. Teague, pipe, etc.	167 92	
Mrs. C. F. Trask, brick	94 50	
Eagle Iron Foundry Co., gratings	78 00	
Sprague, Breed & Brown Co., cement, etc.	59 00	
Beverly Times, advertising	2 00	
Ham's Beverly & Salem Ex., expressing	6 00	
Hoogerzeil's Express, expressing	16 00	
William H. Lord, labor	10 12	
Avery Brothers, sand	4 00	
H. Malcolm Torrey, stock and labor	12 90	
		$1,407 82

Recapitulation

Appropriation		$2,170 40
Expended	$1,407 82	
Unexpended balance	762 58	
		$2,170 40

CITY ELECTRICIAN'S DEPARTMENT—SALARY

Appropriation		$1,200 00
William H. Greenlaw, salary	$1,200 00	
		$1,200 00

CITY ELECTRICIAN'S DEPARTMENT—MAINTENANCE

Joseph W. Lee, supplies	$10 22
Greenlaw Electric Co., supplies	280 78
Gamewell Fire Alarm Co., supplies	338 90
Whitcomb-Carter Co., supplies	9 72
Irving F. Gould, supplies	7 14

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Wilbur J. Pierce, supplies	$2 40	
Citizen Printing Co., printing, etc.	24 20	
William H. Greenlaw, incidental expenses	67 60	
Charles A. Kent, labor	2 50	
William Pettipas, labor	82 97	
Roland E. Hall, labor	18 75	
C. M. Dawson, labor	160 75	
Carl B. Nelson, labor	12 50	
Arthur Marshall, labor	8 00	
Marshall & Moulton Ex. Co., expressing	5 55	
American Express Co., expressing	4 35	
Maguire & Herrick, horse hire	57 00	
Union Stables, horse hire	198 00	
Frank Rideon Co., insulators	3 75	
H. S. Cooper, stock and labor	2 60	
Beverly Times, advertising	2 50	
New England Tel. & Tel. Co., telephone service	14 39	
Robert Robertson Co., repairs on whistle	17 55	
E. W. Davenport, teaming	5 00	
Crowley & Lunt, directory	2 50	
Pickett & Goodwin, stock and labor, whistle	22 20	
H. B. McArdle, office supplies	13 00	
P. McSwiney, labor on laterals	10 17	
Ruth M. Jewett, stenographer	5 00	
		$1,389 99

RECAPITULATION

Appropriation	$1,350 00	
Transferred to	39 99	
		$1,389 99
Expended	$1,389 99	
		$1,389 99

CITY ENGINEER'S DEPARTMENT—SALARY

Appropriation		$1,500 00
Harrie L. Whitney, salary	$1,500 00	
		$1,500 00

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CITY ENGINEER'S DEPARTMENT—MAINTENANCE

Labor, as per pay roll	$4,528 88	
		$4,528 88

INCIDENTALS

Robert A. Williams, Jr., car fares	$10 35
Lawrence G. Rice, car fares	11 47
Arnold D. Smith, car fares	3 30
Albert H. Richardson, car fares	7 84
D. J. Moriarty, car fares	10 95
Frank P. Gilbert, car fares	30
Harold Burnham, car fares	6 20
Alfred Edwards, car fares	3 30
Walter Richardson, car fares	2 30
Arthur E. Woodberry, car fares	25
William H. Croscup, stock and labor	3 75
E. F. Hickey, stock and labor	2 50
W. W. & B. L. Hackett, stock and labor	38 00
A. C. Lunt, stock and labor	3 70
Andrew Stanley, stock and labor	6 20
Citizen Printing Co., printing, etc.	47 30
Beverly Times, advertising	3 00
Crowley & Lunt, directory	2 50
Frost Adams Co., office supplies	2 90
Walker Lithograph Pub. Co., atlas of Beverly	28 00
Alden Webb, mending tape	25
New England Tel. & Tel. Co., telephone service	61 28
Marshall & Moulton Ex. Co., expressing	3 55
American Express Co., expressing	4 15
Boston & Maine R.R., stock	5 00
S. M. Hill & Co., ice	2 94
Union Stables, horse hire	14 50
H. Malcolm Torrey, shoeing, etc.	33 50
Paul Dore, planting plan for cemeteries	20 00
Asso. for Standardizing Paving Specifications, paving specifications	5 00
Harrie L. Whitney, incidental expenses	16 80

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G. H. Flint, supplies	$3 70	
Whitcomb-Carter Co., supplies	23 51	
Matheson Novelty Shop, supplies	4 55	
Spaulding Print & Paper Co., supplies	58 27	
H. B. McArdle, supplies	3 00	
J. F. Pope & Son, supplies	6 05	
Beverly News Co., supplies	10 93	
Ledder & Probst, supplies	30 89	
B. L. Makepeace, supplies	47 55	
The Globe-Wernicke Co., supplies	18 00	
Greenlaw Electric Co., supplies	2 70	
Coast Geodetic Survey, supplies	1 00	
Wm. B. Crowell, Jr., repairs to wagon	33 95	
		$605 18

RECAPITULATION

Appropriation		$5,174 00
Labor, as per pay roll	$4,528 88	
Incidentals	605 18	
Unexpended balance	39 94	
		$5,174 00

CITY FORESTER'S DEPARTMENT—MAINTENANCE

Labor, as per pay roll	$472 44	
Whitcomb-Carter Co., supplies	3 59	
F. A. E. Hamilton, supplies	7 28	
Edward A. Standley, soil	12 40	
Southworth Bros., trees	3 00	
		$498 71

RECAPITULATION

Appropriation		$500 00
Expended	$498 71	
Unexpended balance	1 29	
		$500 00

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CITY FORESTER'S DEPARTMENT—PLANTING AND REPLANTING TREES

Labor, as per pay roll	$83 52	
Southworth Bros., trees, etc.	214 15	
		$297 67

RECAPITULATION

Appropriation		$300 00
Expended	$297 67	
Unexpended balance	2 33	
		$300 00

CITY FORESTER'S DEPARTMENT—SUPPRESSION OF LEOPARD MOTH

Labor, as per pay roll	$438 25	
J. N. Crowe, ladder and poles	45 00	
F. A. E. Hamilton, stock and labor	75	
Eastern Chemical Co., chemicals	16 00	
		$500 00

RECAPITULATION

Appropriation		$500 00
Expended	$500 00	
		$500 00

CITY HALL IMPROVEMENT LOAN—1910

Appropriation		$2,000 00
Redemption of Bonds Nos. 3 and 4	$2,000 00	
		$2,000 00

CITY SOLICITOR'S DEPARTMENT SALARY

Appropriation		$1,000 00
Alfred E. Lunt, salary	$1,000 00	
		$1,000 00

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CITY SOLICITOR'S DEPARTMENT—MAINTENANCE

Alfred E. Lunt, office assistance and expense	$308 41	
Alfred E. Lunt, incidentals	73 08	
Suffolk Engraving Co., engraving city seal,	8 50	
Union Stables, auto hire	5 00	
Beverly Times, advertising	4 50	
		$399 49

Recapitulation

Appropriation		$400 00
Expended	$399 49	
Unexpended balance	51	
		$400 00

COLLECTION OF ASHES

Labor, as per pay roll	$94 18
Merriam C. Morse, contract	1,071 40
M. Grady & Son, contract	781 00
Frank I. Lomasney, contract	450 00
Patrick Delaney, labor	31 98
Dennis Corkery, labor	7 87
Nathaniel Corliss, labor	5 63
Charles H. Cummings, labor	2 25
John K. Fielder, labor	5 62
Joseph A. Stoddard, labor	2 25
Elias H. Dorothy, labor	2 25
John W. Semple, labor	2 25
John H. Tobin, labor	2 25
Jeremiah J. Deering, labor	7 31
Charles P. Ferguson, labor	7 59
Joseph K. Hall, labor	2 25
Herbert W. Harrison, labor	2 25
Charles P. White, labor	2 25
Beverly Times, advertising	3 50
Citizen Printing Co., printing	16 25
Fred Lee, distributing circulars	11 20

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Roland McPherson, distributing circulars,	$6 50	
Augustus L. Churchill, distributing circulars	5 60	
John C. McCarthy, distributing circulars.	5 60	
Henry E. Dodge, distributing circulars..	4 06	
Alfred S. Cooper, distributing circulars..	4 00	
		$2,537 29

RECAPITULATION

Appropriation		$3,200 00
Expended	$2,537 29	
Unexpended balance	662 71	
		$3,200 00

COLLECTION OF GARBAGE

Appropriation		$1,250 00
Charles E. Whipple, contract	$1,094 88	
Unexpended balance	155 12	
		$1,250 00

CONSTRUCTION OF COUNTY WAY

Labor, as per pay roll	$1,976 11	
A. G. Tomasello, contract	12,467 82	
Beverly Times, advertising	4 38	
The Dyar Supply Co., grates	160 00	
Puritan Iron Works, iron frames and covers	199 20	
Boston & Maine R.R., freight	2 49	
Edmund M. Cahill, bank wall, Sturtevant Street	215 00	
		$15,025 00

RECAPITULATION

Appropriation		$19,000 00
Expended	$15,025 00	
Unexpended balance	3,975 00	
		$19,000 00

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CONSTRUCTION OF LIVINGSTON AVENUE

Labor, as per pay roll	$446 24	
Edward A. Standley, gravel	30 30	
		$476 54

RECAPITULATION

Appropriation		$500 00
Expended	$476 54	
Unexpended balance	23 46	
		$500 00

CONSTRUCTION OF PUBLIC LIBRARY BUILDING

Cass & Gilbert, professional services, architects	$3,719 35	
Norcross Brothers Co., contract	64,854 00	
		$68,573 35

RECAPITULATION

Appropriation		$110,000 00
Expended	$68,573 35	
Unexpended balance	41,426 65	
		$110,000 00

CONSTRUCTION OF SCHOOLHOUSE—WARD ONE

John Ashton, architect	$4,000 00	
Louis H. McAloon, contract	7,092 00	
		$11,092 00

RECAPITULATION

Appropriation		$105,000 00
Expended	$11,092 00	
Unexpended balance	93,908 00	
		$105,000 00

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CONSTRUCTION OF SIDEWALK—HALE STREET

Appropriation		$350 00
Andrew W. Rogers, contract	$350 00	
		$350 00

CONTINGENT FUND

J. M. Cutts, dinners to the Board of Aldermen	$28 00	
Frederick A. Dodge, expense of hearings, etc	27 40	
William A. Lee, expense of hearings, etc	10 60	
Henry F. Smith, expense of hearings, etc.	1 74	
Harper Garage Co., auto service	50 00	
Frederick R. Wilson, use of flags July 4	3 50	
Lee & Cressy, use of chairs	13 50	
Andrew Stanley, stock and labor, platform	3 15	
Greenlaw Electric Co., stock and labor	3 90	
		$141 79

RECAPITULATION

Appropriation		$250 00
Expended	$141 79	
Unexpended balance	108 21	
		$250 00

DAY INDUSTRIAL SCHOOL—SALARIES

William P. Taylor, director	$2,000 00	
Otis M. Riggs, instructor	549 00	
U.S.M.Co., instructors	1,613 75	
George W. Sargent, janitor	4 17	
Fred A. Roundy, janitor	73 33	
Edmund G. Dodd, janitor	41 16	
Women's Educational and Industrial Union, services of investigator and secretary	151 95	
		$4,433 36

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RECAPITULATION

Appropriation	$4,000 00	
Transferred to	575 00	
	$4,575 00	
Transferred from	125 00	
		$4,450 00
Expended	$4,433 36	
Unexpended balance	16 64	
		$4,450 00

DAY INDUSTRIAL SCHOOL—MAINTENANCE

MAINTENANCE OF BUILDINGS

Hurd's Laundry, laundry	$7 20	
U.S.M.Co., gas furnace	15 00	
Library Bureau, oak section and rack	25 00	
William Galloupe, stock and labor	19 60	
Pickett & Goodwin, stock and labor	50 75	
McQueeney Brothers, stock and labor	3 40	
D. J. Goodwin, stock and labor	3 15	
Irving F. Gould, supplies	3 00	
The Globe-Wernicke Co., supplies	3 00	
Hooper, Lewis & Co., Inc., supplies	3 00	
Whitcomb-Carter Co., supplies	4 85	
Brown, Howland Co., supplies	73 13	
		$211 08

PUPILS' SUPPLIES

Citizen Printing Co., printing	$36 50
National Society for the Promotion of Industrial Education, dues	4 00
J. L. Hammett & Co., supplies	23 92
Ginn & Co., supplies	19 77
L. E. Knott Apparatus Co., supplies	27 59

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American Book Co., supplies	$1 77	
The Baker & Taylor Co., supplies	1 04	
John Wilson, supplies	33 00	
Charles Scribner, Sons, supplies	25	
City Clerk of Chicago, supplies	1 50	
Manual Art Press, supplies	2 50	
Yarman Frbe Mfg. Co., supplies	7 40	
Edward E. Babb Co., supplies	35 03	
Technical Supply Co., supplies	32 47	
Brown, Howland Co., supplies	17 63	
University of Chicago Press, supplies	1 11	
Almy, Bigelow & Washburn, supplies	3 00	
The Old Corner Book Store, supplies	65 95	
Beverly News Co., supplies	85	
McGraw-Hill Book Co., supplies	3 83	
The Universal Binder, supplies	14 50	
Essex Book Bindery Co., stock and labor	3 75	
Jewell & Andrews, diplomas	32 50	
Samuel Ward Company, invitations	12 50	
Educational Review, subscription	3 00	
		$385 36

General Expenses

New England Tel. & Tel. Co., telephone and tolls	$25 36	
Robert O. Small, incidental expenses	11 15	
Harpers Garage, auto service	25	
Boston & Maine R.R., ride book	36 00	
Beverly News Co., supplies	3 00	
B. L. Makepeace, instruments	27 50	
Fairbanks & Co., stock	9 00	
Union Stables, horse hire	10 25	
U.S.M.Co., lunch at conference	8 50	
Lillie Tongren, clerical work	4 45	
American Express Co., expressing	45	
Samuel Ward Co., supplies	3 05	
Charles E. Doner, services on certificates,	4 20	
Towne's Orchestra, music, graduation	6 00	
		$149 16

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RECAPITULATION

Appropriation	$1,200 00	
Transferred to	125 00	
	$1,325 00	
Transferred from	575 00	
		$750 00
Maintenance of buildings	$211 08	
Pupils' supplies	385 36	
General expenses	149 16	
Unexpended balance	4 40	
		$750 00

DREDGING LOAN, 1903

Appropriation		$3,000 00
Redemption of Bonds Nos. 25, 26, 27	$3,000 00	
		$3,000 00

DREDGING LOAN (A), 1903

Appropriation		$1,000 00
Redemption of Bond No. 8	$1,000 00	
		$1,000 00

ELECTION OFFICERS AND ELECTION EXPENSES

Election officers	$1,291 00	
		$1,291 00

INCIDENTALS

Whitcomb-Carter Co., supplies	$1 02
Beverly News Co., supplies	2 85
Irving F. Gould, supplies	2 10

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Wyatt & Trowt, transporting ballot boxes,	$19 00
John F. Cabeen, putting up and taking down rails, Wards 2 and 3	2 10
S. F. Ober & Son, labor on booth, Ward 5	8 39
Greenlaw Electric Co., stock and labor	20 08
Essex Book Bindery, stock and labor	20 90
F. F. Stowe, stock and labor, Wards 1 and 5,	21 81
William J. Tobin, police duty, Ward 1	19 04
Emery B. Hooper, police duty, Ward 2	17 46
John W. Semple, Jr., police duty, Ward 3	5 25
Wallace P. Legro, police duty, Ward 4	5 00
Edward F. Glidden, police duty, Ward 5	8 78
Calvin L. Williams, police duty, Ward 6	4 25
Irving W. Allen, printing	299 00
Citizen Printing Co., printing	135 55
Thomas F. Dugan, janitor, Ward 1	5 00
Franklin P. Hunkins, janitor, Ward 4	15 00
Union Stables, horse hire	28 00
G. A. Ryan, dinners for registrars	4 00
A. H. Lyman, dinners	3 95
Dirigo Creamery Co., suppers	20 00
Beverly Times, advertising	204 43
Samuel Ward Co., record books	19 00
Eva B. Woodbury, office assistance	16 00
Arthur P. Woodbury, repairs on ballot box	75
Hoogerzeil's Express, teaming	56 10
Publicover Brothers, labor on booth, Ward 6	24 00
Frank A. Ingersoll, labor on booth	9 53
B. H. Moulton, labor on booth, Ward 5	14 27
George A. Herrick, use of land, Ward 5, polling booth	25 00
William H. Brown, janitor, Ward 1	10 00
J. E. McGrath, janitor, Ward 1	5 00
John Crampsey, janitor, Ward 3	12 00
Roland M. Pickett, police duty, Ward 3	4 05
George A. Daniels, police duty, Ward 3	9 99
George C. Andrews, police duty, Ward 4	10 26
Louis E. Shaw, police duty, Ward 4	3 78

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Edward F. Wallis, police duty, Ward 5 ...	$4 05	
Frederick R. Wilson, police duty, Ward 5.	6 21	
Webster K. Bray, police duty, Ward 6....	12 96	
William H. Hinchliffe, labor.....	2 00	
		$1,117 91

RECAPITULATION

Appropriation.....		$2,450 00
Officers.....	$1,291 00	
Incidentals.....	1,117 91	
Unexpended balance.....	41 09	
		$2,450 00

ESSEX BRIDGE INVESTIGATION

Appropriation.....		$609 36
County of Essex, 30 per cent. of cost of investigation.....	$609 36	
		$609 36

ESTATE OF CHARLES R. BUCKLE

Appropriation.....		$5,000 00
Unexpended balance.....	$5,000 00	
		$5,000 00

ESTIMATE FOR BATH-HOUSES

Appropriation.....		$100 00
Expended.....	$100 00	
		$100 00

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EVENING SCHOOL

Teachers' Salaries

Laura E. Horne, principal	$138 00	
Everett W. Brewer, assistant	92 00	
Effie E. Colby, teacher	75 00	
Harriet M. Colby, teacher	124 00	
Walter W. Herrick, teacher	124 00	
Minnie A. Johnson, teacher	122 00	
Charles L. Peirce, teacher	141 00	
Adin Thompson, teacher	36 00	
Carrie L. Comings, teacher	141 00	
Edna Hurlburt, teacher	48 00	
M. Estelle Ramsdell, teacher	120 00	
Mabel A. Matthews, teacher	66 00	
Carl E. Herrick, teacher	82 50	
Otis M. Riggs, teacher	87 00	
Elizabeth B. McLean, teacher	26 00	
		$1,422 50

Janitor's Salaries

William L. Dodd, janitor	$24 00	
George T. Perkins, janitor	24 00	
Raymond S. Abbott, janitor	24 00	
Joseph Pickett, janitor	52 00	
		$124 00

Other Salaries

Clifton W. Gregg, bookkeeper to Jan. 7	$3 50	
Sophia E. Corning, bookkeeper	32 00	
Nehemiah S. Heron, truant officer	32 00	
Mildred F. Hurshman, clerk	2 00	
		$69 50

Pupils' Supplies

Davis Press, enrollment cards	$5 50	
Citizen Printing Co., stock and printing	11 00	
Goodyear-Marshall Publishing Co., supplies	1 71	

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Joseph Dixon Crucible Co., supplies	$3 50	
Edward E. Babb Co., supplies	32 00	
American Book Co., supplies	24 48	
D. C. Heath & Co., supplies	9 05	
		$87 24

Transportation of Pupils

Boston & Maine R.R., transportation	$71 40	
		$71 40

Maintenance of Buildings

J. L. Hammett, supplies	$5 40	
Beverly Gas & Electric Co., lighting	196 02	
		$201 42

General Expense

Beverly Times, advertising	$14 90	
John Drago, services	2 00	
		$16 90

Recapitulation

Appropriation		$2,000 00
Teachers' salaries	$1,422 50	
Janitors' salaries	124 00	
Other salaries	69 50	
Pupils' supplies	87 24	
Transportation of pupils	71 40	
Maintenance of buildings	201 42	
General expense	16 90	
Unexpended balance	7 04	
		$2,000 00

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EXTERMINATION OF GYPSY AND BROWNTAIL MOTHS

Labor, as per pay roll	$5,350 87	
		$5,350 87

INCIDENTALS

Alden Webb, repairs	$0 70	
Fitzhenry-Guptil Co., pruners and brushes,	31 20	
Sexton Can Co., cans	1 20	
Harper Garage Co., batteries	3 00	
W. M. Farwell, hose	100 60	
Harry F. Standley, labor on moth assessment	64 37	
Travellers Insurance Co., insurance of men,	78 75	
M. F. Harkins, gasoline	68 89	
John F. Carter Co., oil clothing	24 04	
Boston & Maine R.R., freight	9 90	
Citizen Printing Co., printing, etc	112 50	
Merrimac Chemical Co., arsenite of lead	702 00	
Desmond's Stables, horse hire	55 00	
Pickett & Goodwin, supplies	4 49	
Barrett Mfg. Co., supplies	17 72	
Whitcomb-Carter Co., supplies	12 57	
Beverly News Co., supplies	1 00	
F. A. E. Hamilton, supplies	14 23	
John S. Baker, stock and labor	115 41	
E. F. Hickey, stock and labor	7 70	
E. C. Sawyer, stock and labor	6 35	
		$1,431 62

RECAPITULATION

Appropriation		$6,800 00
Labor, as per pay roll	$5,350 87	
Incidentals	1,431 62	
Unexpended balance	17 51	
		$6,800 00

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FIRE DEPARTMENT—SALARIES

Robert H. Grant, chief engineer	$375 00
John J. Wittenhagen, clerk and asst. engineer, to May, 1912	175 00
John M. Publicover, asst. engineer to May, 1912	125 00
Stephen E. Cullen, driver	910 00
Frank L. Vickary, driver	910 00
William H. Woodberry, driver	910 00
John Cressy, driver	910 00
John W. Morgan, driver	910 00
William S. Pike, driver	910 00
John F. Mackey, driver	910 00
Frank E. Ludden, driver	910 00
John E. Irving, driver	910 00
John Callely, driver	910 00
Chester L. Pearson, driver	262 50
George W. Standley, chemical engineer	910 00
Walter B. Wright, engineer, West St. Station	910 00
Alfred M. Spear, hoseman	910 00
Timothy J. Brown, hoseman	910 00
David F. Lynch, permanent spare driver	910 00
Simeon F. Allen, engineer and janitor, Central	910 00
Charles A. Kent, permanent spare engineer	250 00
Charles A. Goodwin, permanent spare engineer	250 00
Engines No. 1 and No. 2, wages of members, to May 1, 1912	1,433 34
Engine No. 3, wages of members, to May 1, 1912	1,008 27
Ladder No. 1, wages of members, to May 1, 1912	1,293 34
Ladder No. 2, wages of members, to May 1, 1912	1,145 05
Hose No. 1, wages of members, to May 1, 1912	768 38

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Hose No. 2, wages of members, to May 1, 1912	$795 80	
Hose No. 3, wages of members, to May 1, 1912	718 32	
Hose No. 3, wages of members, to May 1, 1912	793 32	
James W. Wright, driver	647 50	
		$24,600 82

RECAPITULATION

Appropriation		$26,440 00
Expended	$24,600 82	
Unexpended balance	1,839 18	
		$26,440 00

FIRE DEPARTMENT—DEPARTMENT TEAMS

Prides Crossing Shoeing Co., shoeing	$107 95
C. E. Brown, shoeing	53 62
Alfred Hanson, shoeing	115 15
Friend Bros., shoeing	632 55
Connolly Bros., shoeing	36 00
James Guinivan, shoeing	81 42
L. S. Lord, clipping horses	12 00
F. B. Gaudreau, grinding clippers	1 75
Whitcomb-Carter Co., pair scissors	1 00
A. Dodge & Son (Corp.), provender	1,382 90
Jacob Burkhardt, provender	2,001 89
D. M. Linehan & Co., provender	1,200 86
Andrew Dodge, hay	62 10
Frank E. Berry, medicines	4 95
F. W. Varney, medicines	5 40
Thomas F. Delaney, medicines	17 90
T. B. Knowlton, medicines	50
E. F. Hickey, supplies	69 15
Rogers & Chase, supplies	37 00
O. F. Kress & Son, supplies	3 50

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Mathieson Alkali Works, supplies	$6 72	
Greenlaw Electric Co., supplies	1 12	
Cann & Hurlburt, stock and labor	45 27	
M. T. Murphy, stock and labor	130 09	
Geo. H. Burchstead, stock and labor	65 02	
L. K. McRae, stock and labor	59 75	
Beverly Times, advertising	7 00	
B. H. Moulton, repairs on stalls	125 00	
John Cressy, cash for expenses	2 00	
William A. Lee, incidental expenses	3 50	
Lee & Smith, use of horse	33 00	
John H. Newell, bed clothes	20 63	
Preston's Express, expressing	6 05	
		$6,332 74

RECAPITULATION

Appropriation		$6,500 00
Expended	$6,332 74	
Unexpended balance	167 26	
		$6,500 00

FIRE DEPARTMENT—MAINTENANCE

CENTRAL STATION

Beverly Gas & Electric Co., lighting	$355 61
New England Tel. & Tel. Co., telephone service	38 78
Whitcomb-Carter Co., supplies	45 71
Beverly Co-operative Asso., supplies	6 66
Greenlaw Electric Co., supplies	14 64
A. C. Lunt, supplies	8 50
Henry K. Barnes Co., supplies	12 50
Rogers & Chase, supplies	17 88
Robert Robertson Co., stock and labor	59 54
Otis M. Baker, stock and labor	6 80
Cann & Hurlburt, stock and labor	83 97
B. H. Moulton, stock and labor	13 43

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Charles A. Kent, stock and labor	$1 25	
M. F. Harkins, oil, etc.	7 60	
Burton Oil Co., oil	2 50	
Leon G. Philinte, cushions	3 50	
Ame & Co., standard food	14 00	
Almy, Bigelow & Washburn, rug	7 89	
American Express Co., expressing	55	
Ira A. Smith, stock	25	
O. F. Kress & Son, repairs	7 50	
Cornelius Callahan Co., repairs to suction hose	3 20	
American La France Fire Engine Co., hub cap	5 75	
		$718 01

HOSE NO. ONE

Beverly Gas & Electric Co., lighting	$48 98	
New England Tel. & Tel. Co., telephone service	24 43	
Joseph W. Lee & Co., supplies	2 95	
A. C. Lunt, supplies	16 10	
Whitcomb-Carter Co., supplies	1 60	
F. A. E. Hamilton, supplies	18 05	
W. F. Smallie, supplies	4 68	
Harold A. Eldridge, stock and labor	4 55	
F. A. E. Hamilton, stock and labor	2 20	
Robert Robertson Co., stock and labor	10 85	
F. W. Williamson, stock and labor	10 00	
B. H. Moulton, stock and labor	29 73	
Ame & Co., standard food	7 00	
Friend Bros., painting and repairing wagon,	95 00	
		$276 12

HOSE NO. TWO

Beverly Gas & Electric Co., lighting	$94 74	
New England Tel. & Tel. Co., telephone service	40 72	
Whitcomb-Carter Co., supplies	27 89	
Joseph W. Lee & Co., supplies	12 84	

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Heaphy Bros., supplies	$11 90	
Greenlaw Electric Co., supplies	2 10	
Walter C. Flavin, stock and labor	11 88	
Rogers & Chase, stock and labor	15 13	
Frank W. Williamson, stock and labor	7 60	
McQueeney Bros., stock and labor	4 12	
Hussey Garage, hub cap	5 00	
Ame & Co., standard food	7 00	
Elmer W. Davenport, teaming and storage,	1 75	
C. A. Hurd Co., laundry	2 18	
Kenney Bros. & Wolkins, flagpole	27 00	
Ira A. Smith, stock	1 50	
William H. Brown, repairing tank	2 50	
		$275 85

Hose No. Three

Beverly Gas & Electric Co., lighting	$75 19	
New England Tel. & Tel. Co., telephone service	38 51	
Whitcomb-Carter Co., supplies	1 75	
Greenlaw Electric Co., supplies	50	
F. A. E. Hamilton, supplies	1 00	
Ame & Co., standard food	7 00	
J. F. Pope & Son, lumber	5 57	
		$129 52

Hose No. Four

Beverly Gas & Electric Co., lighting	$55 50	
New England Tel. & Tel. Co., telephone service	29 33	
Whitcomb-Carter Co., supplies	2 00	
A. C. Lunt, supplies	6 50	
Albert Standley, care of horse	246 72	
		$340 05

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West Street Station

Beverly Gas & Electric Co., lighting	$174 58	
New England Tel. & Tel. Co., telephone service	31 69	
A. C. Lunt, supplies	1 25	
George H. Burchstead, supplies	33 02	
D. W. Hardy & Son, supplies	24 45	
Whitcomb-Carter Co., supplies	2 63	
Rogers & Chase, supplies	39 11	
Greenlaw Electric Co., supplies	19 62	
Central Square Garage, supplies	7 05	
J. A. Culbert, supplies	70	
Wilbur J. Pierce, stock and labor	20 85	
H. M. & R. E. Hodgkins, stock and labor	111 38	
M. T. Murphy, stock and labor	4 52	
Ame & Co., standard food	14 00	
L. A. Dunn & Co., teaming	50	
James W. Wright, charge of chemical	7 50	
Patrick Corkery Co., cleaning cesspool	18 00	
J. A. Mayberry, extra plumbing	38 00	
Perfect Packing Co., packing Engine 3	7 20	
W. F. Lowe, carriage to fire	75	
Ernest A. Philinte, covers for wagon and Engine 3	12 00	
John H. Newell, blankets, etc.	16 22	
		$585 02

Fire Alarm

Melville Woodbury, steam for whistle	$336 00	
E. C. Sawyer, repairing	4 85	
Maguire & Herrick, horse hire	5 50	
William M. Stevens, horse hire	20 50	
Delaney & Pert, acid	12 85	
First Baptist Calvinistic Society, use of bell, 1912	25 00	
Second Baptist Church, use of bell, 1912	7 50	
		$412 20

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INCIDENTALS

Beverly Gas & Electric Co., lighting chief's stable	$12 00
New England Tel. & Tel. Co., telephone service	53 46
C.C.C. Fire Hose & Rubber Co., supplies	425 00
Beverly News Co., supplies	2 85
Irving F. Gould, supplies	23 79
O. F. Kress & Son, supplies	85 00
C. L. Doble & Co., supplies	30
Ira A. Smith, supplies	13 64
Whitcomb-Carter Co., supplies	8 75
Eagle Oil & Supply Co., supplies	132 57
Rogers & Chase, supplies	13 50
F. A. E. Hamilton, supplies	4 70
Eagle Iron Foundry Co., supplies	4 82
Henry K. Barnes Co., supplies	7 50
Harper Garage Co., supplies	2 75
A. C. Lunt, supplies	50
Gamewell Fire Alarm Co., supplies	10 00
E. F. Hickey, stock and labor	12 35
Joseph W. Lee & Co., stock and labor	46 96
Greenlaw Electric Co., stock and labor	83 30
John Mack, stock and labor	3 00
L. K. McRae, stock and labor	9 40
H. A. Eldridge & Co., stock and labor	1 95
Cann & Hurlburt, stock and labor, chief's stable	1 80
John W. Morgan, washing bed clothes	7 80
Timothy J. Brown, washing bed clothes	4 80
Walter B. Wright, washing bed clothes	7 80
John F. Mackey, washing bed clothes	4 50
William S. Pike, washing bed clothes	7 80
John Callely, washing bed clothes	9 00
James W. Wright, washing bed clothes	7 80
Wm. H. Woodberry, washing bed clothes	7 80
John Cressy, washing bed clothes	10 40
Frank L. Hobbs, washing bed clothes	7 80
James P. Foster, washing bed clothes	9 05

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George W. Standley, washing bed clothes.	$7 80
Stephen E. Cullen, washing bed clothes..	7 80
Frank E. Ludden, washing bed clothes...	7 80
Simeon Allen, washing bed clothes.....	7 80
Frank L. Vickary, washing bed clothes...	7 80
Alfred M. Spear, washing bed clothes....	7 80
John E. Irving, washing bed clothes.....	10 40
E. Florence Roberts, rent of chief's stable.	50 00
E. M. Gamble, typewriting reports.....	3 00
Boston & Maine R.R., ride book, etc.	3 94
Beverly Times, advertising.....	3 30
Irving W. Allen, printing cards.....	16 00
U.S.M.Co., vises.....	4 00
William B. Crowell, Jr., three sets trucks.	76 50
Chas. E. Smith, injuries received Nov. 16, 1911.....	162 00
Harper Garage Co., auto service.....	50 50
Kenney Bros. & Wolkins, supplies.....	12 65
Louis E. Friend, driving chief's wagon...	50 00
J. M. Publicover, mileage.....	12 00
S. S. Ravel, painting Ladder 2.....	95 00
M. T. Murphy, polish.....	15 00
C. E. Caldwell, board of horse.....	17 14
Elmer W. Davenport, teaming.....	5 00
Hoogerzeil's Express, teaming.....	1 16
American Express Co., expressing.....	2 99
L. A. Dunn & Co., expressing.....	16 21
Marshall & Moulton Ex. Co., expressing.	22 55
Boston & Maine R.R., freight.....	1 00
L. G. Philinte, coal bags and apron.....	27 90
Charles A. Kent, labor on clock, Hose 2..	75
Henry Bushek, inspecting boiler.....	4 00
Salem Steam Boiler Works, labor on Engine 2.....	5 10
David F. Lynch, cash paid for meals....	58 40
Charles A. Kent, cash paid for meals.....	48 45
Chester L. Pearson, cash paid for meals..	11 60
James W. Wright, cash paid for meals....	87 50
Fred P. Foster, cash paid for meals.....	10 20
Phineas W. Cooke, cash paid for meals...	13 05

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Charles A. Goodwin, cash paid for meals.	$0 85
James C. Foster, cash paid for meals.....	1 70
A. H. Lyman, dinners.....	3 00
John J. Shea, M.D., medical attendance .	4 00
F. A. Webster, M.D., medical attendance.	9 50
C. H. Phillips, M.D., medical attendance.	8 00
Frank L. Berry, medicines, etc.....	12 00
Delaney & Pert, medicines, etc.....	43 05
Tarbox Drug Co., medicine.....	15
Mrs. R. F. Wittenhagen, sickness of husband contracted while on duty ..	108 00
The Mathieson Alkali Works, soda for chemicals.....	26 88
American La France Fire Engine Co., bottles for extinguisher.....	24 20
Arthur W. Lovett, labor.....	10 00
Charles T. Young, labor.....	3 45
Charles A. Kent, spare engineer, days off, vacation.....	300 00
Charles A. Goodwin, spare engineer.....	7 50
Fred P. Foster, substitute chemicalman..	97 50
Marshall T. Larcom, labor at West St. station.....	11 48
Wm. A. Lee, incidental expenses.....	51 68
John J. Wittenhagen, incidental expenses.	2 00
Arthur Harlowe, labor.....	56
Winchester Tar Disinfectant Co., disinfectant.....	36 55
Fred P. Foster, spare driving.....	257 50
Phineas W. Cooke, spare driving.....	87 50
James P. Foster, spare driving.....	12 50
William H. Brown, spare driving.....	22 50
Jeremiah F. Brown, spare driving.....	2 50
R. H. Newhall, driving.....	1 50
Albert L. Southwick, driving.....	1 50
Charles A. Kent, labor at trial.....	2 50
Frank C. Smith, labor at trial.....	1 25
Roland F. Herrick, labor at trial.....	1 25
S. Henry Stevens, labor at trial.....	1 25
James P. Foster, labor at trial.....	1 25

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Grime & Morphew, repairs	$0 30	
Combination Ladder Co., repairs	3 00	
C. M. Dawson, line work	7 50	
Ernest A. Philinte, apron and covers	6 25	
R. B. Hanson, services, dump fire	1 12	
Charles A. Kent, labor Engine 4	1 25	
Preston's Express, expressing	3 00	
James W. Wright, chemical engineer	5 00	
James E. Lee, washing hose	2 70	
Charles A. Kent, washing hose	5 20	
George A. Moore, washing hose	1 20	
John F. Corkery, washing hose	2 70	
Alfred M. Spear, washing hose	1 50	
Fred Clarke, washing hose	1 25	
Thomas P. Kennedy, washing hose	1 25	
		$3,186 80

RECAPITULATION

Appropriation	$5,775 18	
Transferred to	376 45	
		$6,151 63

Central Station	$718 01	
Hose No. 1	276 12	
Hose No. 2	275 85	
Hose No. 3	129 52	
Hose No. 4	340 05	
West St. Station	585 02	
Fire Alarm	412 20	
Incidentals	3,186 80	
Unexpended balance	228 06	
		$6,151 63

FIRE LOAN—"1906"

Appropriation		$2,000 00
Redemption of Bonds Nos. 11, 12	$2,000 00	
		$2,000 00

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FUEL DEPARTMENT

Poor Department

John. J. Harrigan, wood and coal.....	$972 19	
Sprague, Breed & Brown Co., coal.....	636 85	
		$1,609 04

School Department

John J. Harrigan, wood and coal.....	$1,672 04	
Sprague, Breed & Brown Co., coal.....	5,351 13	
John Girdler, coal.....	1,497 05	
		$8,520 22

Fire Department

John J. Harrigan, wood and coal.....	$894 75	
Sprague, Breed & Brown Co., coal.....	317 92	
		$1,212 67

Health Department

John J. Harrigan, wood and coal.....	$35 33	
		$35 33

Highway Department

Sprague, Breed & Brown Co., coal.....	$1,048 82	
John Girdler, coal.....	342 70	
		$1,391 52

City Hall

Sprague, Breed & Brown Co., coal.....	$545 14	
		$545 14

Water Department

John J. Harrigan, wood and coal.....	$198 10	
Sprague, Breed & Brown Co., coal.....	2,909 06	
John Girdler, coal.....	1,870 98	
		$4,978 14

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Police Department

John J. Harrigan, wood and coal	$42 70	
Sprague, Breed & Brown Co., coal	31 00	
		$73 70

Soldiers' Relief

John J. Harrigan, wood and coal	$599 49	
		$599 49

Sewer Department

John J. Harrigan, wood and coal	$27 16	
		$27 16

Cemetery Department

John J. Harrigan, wood and coal	$13 55	
		$13 55

Grand Army Hall

Sprague, Breed & Brown Co., coal	$31 75	
		$31 75

Incidentals

Citizen Printing Co., advertising	$4 00	
Beverly Times, advertising	4 00	
		$8 00

Recapitulation

Appropriation		$19,321 06
Poor Department	$1,609 04	
School Department	8,520 22	
Fire Department	1,212 67	
Health Department	35 33	
Highway Department	1,391 52	
City Hall	545 14	
Water Department	4,978 14	
Police Department	73 70	

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Soldiers' Relief	$599 49	
Sewer Department	27 16	
Cemetery Department	13 55	
Grand Army Hall	31 75	
Incidentals	8 00	
Unexpended balance	275 35	
		$19,321 06

GRADING, ETC., AT QUEEN PARK

Appropriation		$500 00
M. Grady & Son, teaming and labor	$494 50	
Unexpended balance	5 50	
		$500 00

HEALTH DEPARTMENT—SALARIES

Fred W. Herrick, inspector of plumbing	$1,200 00	
George H. Thissell, clerk	900 00	
Whitman G. Stickney, school physician	400 00	
Henry E. Dodge, 2d, milk inspector	350 00	
Henry E. Dodge, 2d, member of board	50 00	
Joseph E. Herrick, member of board	50 00	
Henry E. Dodge, 2d, inspector of meats	225 00	
Whitman G. Stickney, member of board	50 00	
		$3,225 00

Recapitulation

Appropriation	$3,150 00	
Transferred to	75 00	
		$3,225 00
Expended	$3,225 00	
		$3,225 00

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HEALTH DEPARTMENT—MAINTENANCE

New England Tel. & Tel. Co., telephone service	$58 19
American Express Co., expressing	3 15
Marshall & Moulton Ex. Co., expressing	85
Hoogerzeil's Express, expressing	83 00
S. M. Hill & Co., ice	13 74
Beverly Independent Ice Co., ice	3 00
Citizen Printing Co., printing	119 57
Beverly Times, advertising	16 25
Harry F. Standley, taking notes, etc., at hearing	6 75
Antonio Govani, supplies, contagious diseases	40 66
Mary Sullivan, supplies, scarlet fever case,	25 16
H. F. Moore, supplies	62 17
Whitcomb-Carter Co., supplies	14 78
Beverly News Co., supplies	7 03
C. L. Doble & Co., supplies	8 65
Burdette & William Co., supplies	2 00
A. C. Lunt, supplies	14 50
Greenlaw Electric Co., supplies	45
Rogers & Chase, supplies	3 50
Sprague, Breed & Brown Co., supplies	1 08
John H. Newell, supplies, smallpox case	38
Charles A. Baker, supplies, smallpox case.	38 90
Herbert N. Hanson, milk, smallpox case.	10 53
Alice G. Moore, quarantine, smallpox case.	8 00
A. C. Lunt, household supplies, smallpox. case	67 27
Joseph Ah Chung, nurse, smallpox case.	275 00
Joseph Ah Chung, quarantine, smallpox case	50 00
Hoogerzeil's Express, teaming, smallpox case	59 75
C. L. Doble & Co., blankets, etc., smallpox case	23 67
Marston & Sturtevant, four jars water, smallpox case	2 00

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Field & Kennedy, 2 shirts, smallpox case..	$0 90
Walter C. Flavin, cage for patient, smallpox case.....	40 42
Eugene Marley, police duty, smallpox case,	8 10
Edward F. Glidden, police duty, smallpox case.....	7 02
Emery B. Hooper, police duty, smallpox case.....	4 05
Mrs. E. C. Leaverton, quarantine, smallpox case.....	20 00
Edmund Giles, shoes, smallpox case.....	50
The Hammond Typewriter Co., exchange of typewriter.....	58 57
Hurd's Laundry, laundry.....	2 90
Amos Homans, care of pest house.....	3 00
Samuel R. Dexter, stock and labor, pest house.....	16 25
John J. Shea, M.D., professional services,	90 00
H. E. Sears, M.D., professional services .	18 00
Whitman G. Stickney, M.D., professional services.....	30 00
George A. Stickney, M.D., professional services.....	24 00
Francis G. Stanley, M.D., professional services.....	12 00
Frank A. Cowles, M.D., professional services.....	33 00
Laurence C. Swan, M.D., professional services.....	30 00
James A. Shatswell, M.D., professional services.....	3 00
Rutland State Sanatorium, care of patients.....	179 97
Mary B. Smith, rent, scarlet fever case ...	6 67
Mikel Finburg, rent, contagious disease ..	21 00
Ellen F. Lane, nursing, contagious disease,	15 00
Mabel M. Burns nursing, contagious disease.....	159 00
Mrs. H. L. B. Story, nursing, contagious disease	27 00

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Katharine P. Dore, nursing, contagious disease	$222 00
Annie Philbrick, nursing, contagious disease	79 29
E. M. Duncan, groceries, contagious disease	76 35
Heaphy Bros. groceries, contagious disease	93 56
William Cullivan, groceries, contagious disease	97 79
Mary Sullivan, rent, contagious disease	9 00
Sarah Hanson, services, contagious disease	14 64
E. Blanche Foster, services, contagious disease	34 32
E. L. Marshall, milk, contagious disease	1 68
Dirigo Creamery, milk, contagious disease,	7 18
Alvah J. Bradstreet, milk, contagious disease	2 72
Maguire & Herrick, carriage to Lynn, contagious disease	7 00
Mrs. Amanda Tibbetts, supplies, contagious disease	7 11
Ernest Tebbetts, labor, contagious disease	7 50
Thomas F. Delaney, medicines	88 51
Charles A. Baker, medicines	35 31
Ropes Drug Co., medicines	10 19
Delaney & Pert, medicines	93
J. A. and W. Bird Co., chloride lime	4 00
The DePree Chemical Co., fumigators, etc	132 00
Whitman G. Stickney, M.D., examination for labor certificates	149 00
Pickett & Goodwin, stock and labor	2 75
Andrew Stanley, stock and labor	8 37
W. R. Haskell, labor	1 00
John J. Harrigan, coal	6 40
Western Union Telegraph Co., telegrams	77

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Crowley & Lunt, directory	$2 50
Bay State Street R.R. Co., tickets	14 50
F. W. Herrick, auto service and expenses	20 54
Union Stables, auto and carriage hire	64 00
Harper Garage Co., auto service	11 00
G. H. Flint, office supplies	1 50
Patrick Corkery Co., cleaning dumps	38 13
Boston & Maine R.R., ride books	16 40
Lee & Cressy, removing bodies	13 00
Beverly Gas & Electric Co., tubing	50
Commonwealth of Massachusetts, tuberculosis case	38 00
Poor Department, City of Beverly, tuberculosis case	80 00
P. Blakeston Son & Co., dictionary	14 00
Joseph E. Lamb, analysis of milk	48 00
Dorothy Conrad, quarantine	7 00
Salem Hospital, board and nursing	17 00
North Reading Sanatorium, board and nursing	111 43
Lynn Board of Health, board and nursing	703 70
Helen M. Bennett, nursing	18 00
Clara L. Smith, services	16 00
Fannie E. Aldrich, board of nurse	3 50
Charles J. Frechette, labor, quarantine	32 00
Henry E. Dodge, 2d, incidental expenses	37 21
George H. Thissell, incidental expenses	11 07
John K. Fielder, removing nuisances	2 00
Martin Sweeney, removing nuisances	1 00
Willie F. Jones, removing nuisances	1 00
Joseph D. Marshall, removing nuisances	1 00
Fred H. Beckford, removing nuisances	5 00
Connolly Bros., removing nuisances	1 00
R. A. Newhall, removing nuisances	2 00
Lewis C. Stone, removing nuisances	1 00
Joseph A. Ryan, removing nuisances	1 00
Fred P. Woodbury, removing nuisances	1 00
William L. Pickett, removing nuisances	1 00
William R. Haskell, removing nuisances	1 00
	$4,266 68

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RECAPITULATION

Appropriation	$4,950 00	
Transferred from	75 00	
		$4,875 00
Expended	$4,266 68	
Unexpended balance	608 32	
		$4,875 00

HIGHWAY LOAN, No. 2—1912

Appropriation		$58 90
Unexpended balance	$58 90	
		$58 90

HIGHWAY DEPARTMENT—GENERAL REPAIRS

Labor, as per pay roll	$26,444 85	
		$26,444 85

GRAVEL, SAND, ETC.

Edward A. Standley, sand, etc.	$96 30	
M. Grady & Son, gravel	21 00	
William Standley, gravel	208 20	
John H. Foster, gravel	151 60	
Andrew Dodge, gravel	8 40	
James S. Brown, gravel	36 30	
		$521 80

SUPPLIES AND REPAIRS ON MACHINERY

W. S. Rallsback, treasurer, grader	$115 00	
John Eisenmann & Co., supplies	45 00	
Harold L. Bond & Co., sand screen	16 20	
Dodge, Haley & Co., iron and steel	42 97	
Buffalo Steam Roller Co., repairs and supplies	30 32	
Zina Goodell, repairs and supplies	18 29	
		$267 78

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INCIDENTALS

New England Tel. & Tel. Co., telephone service	$72 20
Whitcomb-Carter Co., supplies	81 67
The Hammond Typewriter Co., supplies	6 55
Waldo Brothers, supplies	17 40
Walworth Mfg. Co., supplies	24 74
W. M. Farwell, supplies	118 73
Eagle Oil & Supply Co., supplies	167 69
The Dyar Supply Co., supplies	132 60
Beverly News Co., supplies	7 97
Harold L. Bond Co., supplies	40 13
Sexton Can Co., supplies	18 90
B. L. Makepeace, supplies	8 74
Zina Goodell, supplies	8 00
George E. Teague, supplies	16 75
John S. Baker, supplies	15 10
Buffalo Steam Roller Co., supplies	2 50
John Eisenmann & Co., supplies	27 00
Thomas Groom & Co., supplies	8 75
F. A. E. Hamilton, supplies	213 46
Pickett & Goodwin, stock and labor	5 90
Joseph W. Lee & Co., stock and labor	10 73
H. M. & R. E. Hodgkins, stock and labor	45 05
Lee & Cressy, stock and labor	5 00
G. H. Goudy, stock and labor	46 60
A. C. Lunt, stock and labor	2 24
J. F. Pope & Son, stock	95 61
Otis M. Baker, labor	3 50
John B. Hill & Son, labor	75
William E. Elliott, labor	25
Citizen Printing Co., stock and printing	43 95
Marshall & Moulton Ex. Co., expressing	33 89
American Express Co., expressing	6 21
L. A. Dunn & Co., expressing	1 40
Boston & Maine R.R., freight	79 14
M. F. Harkins, oil	105 55
Gulf Refining Co., oil	1,008 42
Borne Schrysmer Co., oil	18 00

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Dirigo Creamery Co., salt	$12 75	
Bank and Office Equipment Co., steel curtain case	127 00	
Boston & Maine R.R., ride book	13 00	
J. N. Crowe, ladder	22 70	
H. I. Dalman Co., brooms	16 00	
The Barber Asphalt Paving Co., asphalt	676 35	
Henry Bushek, inspecting boilers	10 00	
The Cornelius Callahan Co., repairs	2 25	
D. Linehan & Son, use of boilers, etc.	14 29	
A. Dodge & Son Corp., fertilizer	8 50	
The CCC Fire Hose and Rubber Co., hose	255 00	
Ames Implement and Seed Co., waste barrels, etc.	25 25	
Whitman G. Stickney, M.D., professional services	5 00	
H. E. Sears, M.D., professional services	9 00	
Henry M. Meek Publishing Co., directory	4 00	
Crowley & Lunt, directory	2 50	
John J. Harrigan, wood	33 50	
John A. Gaffey, work on Brimbal Ave.	221 91	
W. H. Griffin, rubber boots	4 00	
Robert E. Whipple, laundry	75	
G. F. Whitney, soap	6 60	
		$3,971 42

RECAPITULATION

Appropriation		$32,364 28
Labor, as per pay roll	$26,444 85	
Gravel, sand, etc.	521 80	
Supplies and repairs on machinery	267 78	
Incidentals	3,971 42	
Unexpended balance	1,158 43	
		$32,364 28

HIGHWAY DEPARTMENT—SPECIFIC REPAIRS

Labor, as per pay roll	$6,032 90	
		$6,032 90

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INCIDENTALS

Frederick A. Dodge, expense of committee	$6 00	
William A. Lee, expense of committee and street inspection	38 60	
Harper Garage Co., auto service	19 00	
Desmond's Stables, auto service	15 00	
Union Stables, auto service	25 00	
Edward A. Standley, sand	133 95	
M. Grady & Son, gravel	72 00	
Connolly Bros., gravel	359 30	
Andrew Dodge, gravel	5 50	
The Dyar Supply Co., supplies	268 00	
F. A. E. Hamilton, supplies	60 00	
D. N. Griffin, supplies	2 00	
Crowley & Lunt, street numbering	50 00	
Beverly Times, advertising	4 00	
The Barber Asphalt Co., asphalt	2,039 31	
Standard Oil Co., of N.Y., macadam asphalt	24 06	
Boston & Maine R.R., freight	37 80	
J. J. Harrigan, wood	36 00	
John H. Foster, rocks and gravel	61 70	
John A. Gaffey, labor, Brimbal Ave.	756 59	
		$4,013 81

PEABODY AVE.

Labor, as per pay roll	$741 57	
Edward A. Standley, gravel	253 81	
Samuel Cole, gravel and stone	64 80	
		$1,060 18

BENNETT ST.

Labor, as per pay roll	$253 61	
Samuel Cole, gravel and stone	43 80	
		$297 41

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LIVINGSTON AVE.

Labor, as per pay roll	$230 24	
Edward A. Standley, gravel	42 36	
		$272 60

WHITNEY AVE.

Labor, as per pay roll	$205 84	
Edward A. Standley, gravel	78 53	
Samuel Cole, gravel amd stone	8 10	
P. McSwiney, team and labor	25 50	
		$317 97

RECAPITULATION

Appropriation		$12,000 00
Labor, as per pay roll	$6,032 90	
Incidentals	4,013 81	
Peabody Ave.	1,060 18	
Bennett St.	297 41	
Livingston Ave.	272 60	
Whitney Ave.	317 97	
Unexpended balance	5 13	
		$12,000 00

HIGHWAY DEPARTMENT—STONE CRUSHER

Labor, as per pay roll	$6,491 92	
		$6,491 92

SUPPLIES AND REPAIRS ON MACHINERY

George H. Sampson & Co., supplies	$25 24	
Hawkbridge Brothers & Co., supplies	12 13	
Perfect Packing Co., supplies	1 00	
Good Roads Machinery Co., supplies	109 49	
Harold L. Bond Co., supplies	3 20	
		$151 06

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INCIDENTALS

Barrett Mfg. Co., supplies	$11 40	
Good Roads Machinery Co., supplies	297 50	
W. M. Farwell, supplies	33 65	
George H. Sampson & Co., supplies	103 48	
Whitcomb-Carter Co., supplies	37 50	
F. A. E. Hamilton, supplies	7 90	
Atlantic Junk Co., supplies	11 74	
Chase, Parker & Co., supplies	8 74	
Dodge-Haley & Co., supplies	2 90	
Zina Goodell, supplies	70	
The Dyar Supply Co., supplies	21 50	
J. F. Pope & Son, stock, etc.	141 95	
John S. Baker, stock, etc.	23 77	
Ira A. Smith, stock and labor	5 83	
James Welch & Co., dynamite	45 00	
Harold L. Bond Co., dynamite	36 80	
Horace A. Woodbury, labor	50	
William A. Lee, expense of committee, superintendent and engineer	10 00	
Boston & Maine R.R., freight	16 16	
American Express Co., expressing	20	
L. A. Dunn & Co., expressing	50	
Eagle Oil & Supply Co., paint	37 50	
		$855 22

RECAPITULATION

Appropriation		$7,500 00
Labor, as per pay roll	$6,491 92	
Supplies and repairs on machinery	151 06	
Incidentals	855 22	
Unexpended balance	1 80	
		$7,500 00

HIGHWAY DEPARTMENT—SALARY OF SUPERINTENDENT

Appropriation		$1,300 00
Josiah B. Brown, salary	$1,300 00	
		$1,300 00

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HIGHWAY DEPARTMENT—GRAVEL SIDEWALKS

Labor, as per pay roll	$3,249 82	
		$3,249 82

Incidentals

J. F. Pope & Son, stock, etc.	$31 50	
Crowley & Lunt, numbering streets	37 50	
Boston & Maine R.R., freight	67 99	
Edward A. Standley, gravel, sand, etc.	262 35	
Beverly Building Association, cinders	42 40	
Boston & Maine R.R., cinders	3 60	
Horace W. Woodberry, gravel	35 70	
Andrew Dodge, gravel	10 50	
Frank L. Woodberry, gravel	11 62	
Albert Latham, gravel	36 50	
Silas Boyce, gravel	9 00	
		$548 66

Recapitulation

Appropriation		$3,800 00
Labor, as per pay roll	$3,249 82	
Incidentals	548 66	
Unexpended balance	1 52	
		$3,800 00

HIGHWAY DEPARTMENT—ARTIFICIAL SIDEWALKS

Labor, as per pay roll	$969 33	
		$969 33

Incidentals

Beverly Times, advertising	$10 75	
Boston & Maine R.R., freight	502 24	
William A. Lee, expense of sidewalk inspection	30 05	
P. McSwiney, derrick	75 00	
William H. Croscup, stock and labor	4 50	
J. F. Pope & Son, stock	40	
		$622 94

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CONCRETE, BRICK AND EDGESTONES

John Buckley, brick	$2,240 00	
Lovejoy Granite Co., curbing	2,426 10	
		$4,666 10

CONSTRUCTION OF BRICK SIDEWALKS

John C. Fowler, contract	$1,754 77	
		$1,754 77

CONSTRUCTION OF GRANOLITHIC SIDEWALKS

Simpson Brothers, labor	$253 03	
		$253 03

SETTING EDGESTONES

P. McSwiney, contract	$1,064 55	
		$1,064 55

RECAPITULATION

Appropriation	$10,000 00	
Transferred from	666 19	
		$9,333 81
Labor, as per pay roll,	$969 33	
Incidentals	622 94	
Concrete, brick and edgestones	4,666 10	
Construction of Brick Sidewalks	1,754 77	
Construction of Granolithic Sidewalks	253 03	
Setting Edgestones	1,064 55	
Unexpended balance	3 09	
		$9,333 81

HIGHWAY DEPARTMENT—GRAVEL SIDEWALKS, WARD 6

Labor, as per pay roll	$1,385 82	
		$1,385 82

INCIDENTALS

Boston & Maine R.R., freight	$182 26	
Boston & Maine R.R., cinders	116 40	
		$298 66

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CURBING

Lovejoy Granite Co., curbing	$851 00	
Patrick McSwiney, laying curbing	464 52	
		$1,315 52

RECAPITULATION

Appropriation	$1,000 00	
Transferred to	2,000 00	
		$3,000 00
Labor, as per pay roll	$1,385 82	
Incidentals	298 66	
Curbing	1,315 52	
		$3,000 00

HIGHWAY DEPARTMENT—ARTIFICIAL SIDEWALKS, WARD 6

Appropriation		$2,000 00
Transferred from	$2,000 00	
		$2,000 00

HIGHWAY DEPARTMENT—STREET WATERING

Labor, as per pay roll, watering	$64 35	
Josiah N. Trask, watering	521 50	
Elmer A. Lothrop, watering	891 00	
John W. Lovett, watering	199 12	
Patrick Corkery Co., watering	36 00	
Stephen A. Gwinn, watering	48 00	
Florence Driscoll, watering	14 00	
		$1,773 97

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STREET OILING

Labor, as per pay roll, oiling	$263 04	
		$263 04

INCIDENTALS

The Lennox Mfg. Co., supplies	$5 00	
Studebaker Corporation of America, supplies	44 80	
F. A. E. Hamilton, supplies	85	
Walworth Mfg. Co., supplies	17 65	
Alden Spears Sons Co., oil	456 08	
Standard Oil Co., of N.Y., oil	348 74	
John S. Baker, stock and labor	96	
Gulf Refining Co., asphaltoil	1,137 50	
Barber Asphalt Paving Co., liquid asphalt,	1,140 19	
Boston & Maine R.R., freight	6 76	
Beverly Times, advertising	2 00	
		$3,160 53

RECAPITULATION

Appropriation		$5,200 00
Watering	$1,773 97	
Oiling	263 04	
Incidentals	3,160 53	
Unexpended balance	2 46	
		$5,200 00

HIGHWAY DEPARTMENT—SURFACE DRAINAGE

Labor, as per pay roll	$3,400 85	
		$3,400 85

INCIDENTALS

George E. Teague, storage, etc.	$4 00	
J. F. Pope & Son, stock	18 74	
John S. Baker, stock and labor	35 09	
Puritan Iron Works, frames, etc.	303 00	

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John Buckley, brick	$572 25	
Whitcomb-Carter Co., supplies	5 40	
Boston & Maine R.R., freight	210 71	
William H. Griffin, rubber boots	42 50	
Elmer Standley, rubber boots	10 50	
George E. Teague, pipe	1,122 44	
Whitcomb-Carter Co., pipe	225 90	
J. J. Harrigan, cement	413 00	
Edward A. Standley, gravel	2 25	
Edson Mfg. Co., gasoline engine, etc.	133 35	
Lunt, Morse Co., stud for Douglas pump	50	
Gove Lumber Co., lumber	79 19	
		$3,178 82

RECAPITULATION

Appropriation		$6,600 00
Labor, as per pay roll	$3,400 85	
Incidentals	3,178 82	
Unexpended balance	20 33	
		$6,600 00

HIGHWAY DEPARTMENT—BRIDGES

Labor, as per pay roll	$146 26	
		$146 26

INCIDENTALS

J. F. Pope & Son, lumber	$267 21	
Whitcomb-Carter Co., supplies	2 40	
F. A. E. Hamilton, supplies	9 45	
		$279 06

RECAPITULATION

Appropriation		$500 00
Labor, as per pay roll	$146 26	
Incidentals	279 06	
Unexpended balance	74 68	
		$500 00

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HIGHWAY DEPARTMENT—TEAM ACCOUNT

George E. Grotto, driver	$728 00	
James F. McConnell, driver	728 00	
Frank Grotto, driver	728 00	
Albert L. Southwick, driver	728 00	
George E. Norbery, stableman	702 00	
Lewis C. Stone, stableman	702 00	
		$4,316 00

INCIDENTALS

William R. Haskell, sub-stableman	$280 12
M. F. Harkins, oil	124 62
Henry S. Harris & Son, supplies	52 70
Whitcomb-Carter Co., supplies	10 30
Joseph W. Lee & Co., supplies	31 04
Chase, Parker & Co., supplies	57 66
C. C. Cunningham, supplies	27 25
F. A. E. Hamilton, supplies	12 95
E. F. Hickey, stock and labor	68 35
Wm. B. Crowell, Jr., stock and labor	95 01
L. K. McRae, stock and labor	12 40
G. H. Goudey, stock and labor	15 22
Charles T. Young, stock and labor	47 69
Samuel R. Dexter, stock and labor	38 50
Edwin A. Edwards, stock and labor	22 39
John S. Baker, stock and labor	9 25
G. W. Grime, stock and labor	1 45
New England Tel. & Tel. Co., telephone service	37 72
Beverly Gas & Electric Co., lighting city stable	104 04
H. Malcolm Torrey, shoeing	160 51
Friend Bros., shoeing	193 25
John Quigley, shoeing	39 70
A. Dodge & Son (Corp.), provender	1,599 75
J. Burkhardt, provender	1,610 57
Parker S. Davis, provender	157 05
Overseers of Poor, hay	79 45
Josiah B. Brown, use of auto, etc.	400 00
William H. Griffin, boots	4 50

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J. J. Harrigan, cement	$8 00	
Edward Welch, care of sick horse	27 75	
S. S. Ravel, painting wagon, etc.	34 00	
J. F. Pope & Son, stock	28 50	
Frank E. Berry, medicine	19 50	
Charles A. Baker, medicine	1 75	
William F. Smallie, soap	6 55	
Wakefield Chemical Co., perioline	4 00	
Union Stables, exchange of horses	550 00	
B. L. and W. H. Hackett, repairs	10 25	
Cann & Hurlburt, repairing city stables, etc.,	248 90	
The Studebaker Corporation of America, road oil tank	569 40	
Fred B. Woodbury, driver	70 00	
Ramalena A. Newhall, driver	67 50	
William J. Russell, driver	22 50	
Edward F. Butman, driver	5 62	
Labor of men	53 51	
		$7,021 17

RECAPITULATION

Appropriation		$11,500 00
Labor	$4,316 00	
Incidentals	7,021 17	
Unexpended balance	162 83	
		$11,500 00

IMPROVEMENT OF ATHLETIC FIELD

Samuel H. Stone, advertising	$6 75	
Beverly Times, advertising	3 00	
Samuel R. Dexter, contract	2,443 50	
M. Grady & Son, team and labor	112 20	
		$2,565 45

RECAPITULATION

Appropriation		$3,000 00
Expended	$2,565 45	
Unexpended balance	434 55	
		$3,000 00

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INCIDENTAL ACCOUNT

City Documents

Beverly Printing Co., printing City Documents	$1,116 60	
I. W. Allen, manuals	93 50	
Citizen Printing Co., pocket-books	44 40	
Mabel B. Perry, proof-reading, City Documents	15 00	
Bertha L. Hayward, proof-reading, City Documents	15 00	
		$1,284 50

Incidentals

Matheson Novelty Shop, supplies	$1 05
Thomas Groom & Co., supplies	111 15
Library Bureau, supplies	1 60
Fred T. Nelson, supplies	1 50
H. H. Messerve & Co., supplies	2 40
John B. Hill & Son, supplies	7 90
Beverly News Co., supplies	15 30
The Hammond Typewriter Co., supplies	25
A. W. Brownell, supplies	2 50
McMillan Book Co., supplies	10 00
CCC Fire Hose & Rubber Co., supplies	1 75
Kenney Bros. & Wolkins, supplies	1 90
Remington Typewriter Co., supplies	2 90
Burroughs Adding Machine, supplies	80
Hobbs & Warren, supplies	4 00
Henry S. Parker, supplies	73
Irving F. Gould, supplies	50
Whitcomb-Carter Co., supplies	75
The Ropes Drug Co., supplies	38
Samuel Ward Co., supplies	26 95
The Birmingham Pen Co., supplies	9 50
Wright-Potter Printing Co., supplies	18 00
F. S. Webster & Co., office supplies	4 50
Irving W. Allen, printing, etc.	291 88
Citizen Printing Co., printing, etc.	588 04

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Salem Evening News, advertising	$9 41
Frederick A. Dodge, incidental expenses	29 10
Charles F. Lee, incidental expenses	38 10
Hervey Lunt, incidental expenses	22 65
Luther S. Herrick, incidental expenses	29 08
William R. Tucker, incidental expenses	7 60
Theodore A. Holmes, incidental expenses	2 55
Ella P. Curtis, incidental expenses	10 13
John M. Murney, incidental expenses	14 80
Robert J. Rafferty, incidental expenses	13 55
Boston & Maine R.R., ride books	65 00
William A. Lee, expense of committee, ride books, etc.	164 73
William C. Blaisdell, car fares, etc.	1 75
Harper Garage Co., auto hire	25 00
James J. Nugent, horse hire	3 00
L. A. Dunn & Co., expressing	12 00
Marshall & Moulton Ex. Co., expressing	12 65
American Express Co., expressing	1 95
Hoogerzeil's Express, teaming	34 50
H. B. McArdle, office supplies	10 65
G. H. Flint, pencils	3 00
The Carter's Ink Co., ink	4 40
John J. Hargraves, ink	2 00
Beverly Times, advertising	211 23
C. A. Hurd Co., laundry	2 95
Robert E. Whipple, towels	27 40
Francis Norwood, P.M., stamps and envelopes	375 57
The Smith Premier Typewriter Co., repairs and supplies	13 00
City of Boston School Committee, tuition,	132 00
S. M. Hill & Co., ice	46 67
Western Union Telegraph Co., telegrams	64
Harry F. Standley, transcribing hearings	13 00
Summa Carbon & Ribbon Co., record ribbon	1 80
W. M. Patten Co., stamps	5 00
Suffolk Engraving Co., cut of city seal	8 50
L. E. Felton, matches	3 50

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John Cullivan, claim	$35 00
William M. Stevens, claim	75 00
Union Stables, horse and auto hire	38 00
Desmond's Stables, horse hire, etc.	36 50
Maguire & Herrick, horse hire, etc.	9 00
W. and L. E. Gurley, supplies, sealer of weights and measures	10 18
Ropes, Gray & Gorham, legal services	10 00
George A. Daniels, constable service	146 56
Field & Cowles, Premium Bonds, City Officers	265 00
Old Colony Trust Co., preparation and certification of bonds	1,607 50
American Bonding Co., bond of Supt. of Cemeteries	5 00
Herbert S. Joslin, reports of hearings	4 00
James Carney, damage by water, No. 16 Front St.	40 00
Benjamin A. Patch, commission, purchase of Lamson lot	500 00
F. C. Welch *et al.*, Trustees, final settlement of judgment, Shaw case	733 43
John Cullivan, claim for injury to horse	70 00
Mabel L. Burns, claim for services as nurse	50 00
Essex Registry of Deeds, registering deed,	1 70
George N. Whitman, building houses—cemeteries	301 25
Ezra Standley, labor, report of 1911, etc.	101 50
Mabel B. Perry, clerical assistance and auditing	279 45
Eva Woodbury, clerical assistance, city clerk	48 67
Bertha L. Hayward, office assistance, city clerk and auditor	70 50
Banker and Tradesman, subscription	5 00
George A. Daniels, dog service	239 93
Lambert Jackson, books for Collector	23 59
Beverly National Bank, rent of vault	32 00
Sampson-Murdock Co., directory	6 00

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Crowley & Lunt, directories	$21 00
Henry M. Meek Pub. Co., books and directories	21 18
J. M. Cutts, suppers	10 00
Thomas W. Hodgkiss, injury to horse	150 00
Samuel Higgins, ringing bell, July 4	2 00
Arthur A. L. May, ringing bell, July 4	2 00
Nehemiah S. Heron, ringing bell, July 4	4 00
Francis J. Keegan, distributing tax bills, Ward 1	24 18
Hammond T. Robinson, distributing tax bills, Ward 2	14 63
Percy Jewell, distributing tax bills, Ward 4,	22 21
Fred Lee, distributing tax bills, Ward 3	14 63
Frederick O. Cressy, distributing tax bills, Ward 5	13 50
Ralph L. Holmes, distributing tax bills, Ward 6	10 00
S. A. Gentlee & Son, returning deaths	21 75
J. F. Desmond & Co., returning deaths	16 25
Lee & Cressy, returning deaths	21 75
Margaret McPherson, canvassing and returning births	30 50
George W. Blaisdell, M.D., returning 8 births	2 00
Maria W. Bliss, M.D., returning 1 birth	25
Estate David C. Coleman, returning 45 births	11 25
Frank A. Cowles, M.D., returning 25 births	6 75
W. J. Dougherty, M.D., returning 12 births,	3 00
L. C. Eastman, M.D., returning 2 births	50
Henry L. Elliott, M.D., returning 4 births,	1 00
Martin T. Field, M.D., returning 13 births,	3 25
Wm. F. Hayes, M.D., returning 2 births	50
George J. Hill, M.D., returning 19 births	4 75
Peer P. Johnson, M.D., returning 30 births,	7 50
Norman M. MacLeod, M.D., returning 18 births	4 50
Chas. W. Morse, M.D., returning 5 births	1 25

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Charles H. Phillips, M.D., returning 26 births	$6 50	
Hardy Phippen, M.D., returning 3 births.	75	
H. E. Sears, M.D., returning 41 births....	10 25	
John J. Shanahan, M.D., returning 1 birth,	25	
James A. Shatswell, M.D., returning 47 births	11 75	
John J. Shea, M.D., returning 33 births...	8 25	
George A. Stickney, M.D., returning 45 births	11 25	
Whitman G. Stickney, M.D., returning 28 births	7 00	
Ralph E. Stone, M.D., returning 9 births.	2 25	
F. G. Stanley, M.D., returning 21 births..	5 25	
Laurence C. Swan, M.D., returning 25 births	6 25	
J. W. Voss, M.D., returning 4 births.....	1 00	
Frederick A. Webster, M.D., returning 19 births	4 75	
		$7,731 43

RECAPITULATION

Appropriation		$9,192 50
City Documents	$1,284 50	
Incidentals	7,731 43	
Unexpended balance	176 57	
		$9,192 50

INSPECTOR OF BUILDINGS DEPARTMENT—SALARY

Appropriation		$1,000 00
John A. Ober, salary	$1,000 00	
		$1,000 00

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INSPECTOR OF BUILDINGS DEPARTMENT—

MAINTENANCE

John A. Ober, incidental expenses	$70 25	
Crowley & Lunt, directory	2 50	
Citizen Printing Co., office supplies	15 45	
American Express Co., expressing	45	
Thomas Groom & Co., bookbinder and sheets	26 00	
		$114 65

RECAPITULATION

Appropriation		$250 00
Expended	$114 65	
Unexpended balance	135 35	
		$250 00

INTEREST ACCOUNT

TEMPORARY LOANS

Appropriation		$8,136 46
Expended	$7,926 93	
Unexpended balance	209 53	
		$8,136 46

WATER LOAN, 1917

Appropriation		$6,000 00
Expended	$6,000 00	
		$6,000 00

WATER LOAN, 1903

Appropriation		$800 00
Expended	$800 00	
		$800 00

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WATER LOAN, 1905

Appropriation		$1,155 00
Expended	$1,155 00	
		$1,155 00

WATER LOAN, 1905

Appropriation		$200 00
Expended	$200 00	
		$200 00

WATER LOAN, 1905, No. 2

Appropriation		$880 00
Expended	$880 00	
		$880 00

WATER LOAN, 1910, No. 1

Appropriation		$80 00
Expended	$80 00	
		$80 00

COMMONWEALTH OF MASSACHUSETTS NOTES

Appropriation		$600 00
Expended	$600 00	
		$600 00

SEWER LOAN, 1893

Appropriation		$1,200 00
Expended	$1,200 00	
		$1,200 00

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SEWER LOAN, 1900

Appropriation		$2,160 00
Expended	$2,160 00	
		$2,160 00

SEWER LOAN, 1903

Appropriation		$2,800 00
Expended	$2,800 00	
		$2,800 00

SEWER LOAN, 1906

Appropriation		$6,460 00
Expended	$6,460 00	
		$6,460 00

SEWER LOAN, 1907, No. 2

Appropriation		$990 00
Expended	$990 00	
		$990 00

SEWER LOAN, 1907, No. 3

Appropriation		$90 00
Expended	$90 00	
		$90 00

SEWER LOAN, 1908, No. 6

Appropriation		$1,400 00
Expended	$1,400 00	
		$1,400 00

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SEWER LOAN, 1909, No. 1

Appropriation		$262 50
Expended	$262 50	
		$262 50

SEWER LOAN, 1909, No. 2

Appropriation		$105 00
Expended	$105 00	
		$105 00

SEWER LOAN, 1910, No. 1

Appropriation		$420 00
Expended	$420 00	
		$420 00

SEWER LOAN, 1910, No. 2

Appropriation		$135 00
Expended	$135 00	
		$135 00

SEWER LOAN, 1911, WARD 4

Appropriation		$860 00
Expended	$860 00	
		$860 00

SEWER LOAN, 1911, No. 2

Appropriation		$860 00
Expended	$860 00	
		$860 00

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SEWER LOAN, 1911, No. 3

Appropriation		$600 00
Expended	$600 00	
		$600 00

SEWER LOAN, 1911, No. 4

Appropriation		$360 00
Expended	$360 00	
		$360 00

SCHOOL LOAN, 1902, FARMS

Appropriation		$120 00
Expended	$120 00	
		$120 00

SCHOOL LOAN, 1902, SOUTH AND PROSPECT

Appropriation		$1,060 00
Expended	$1,060 00	
		$1,060 00

SCHOOL LOAN, 1903

Appropriation		$1,137 50
Expended	$1,137 50	
		$1,137 50

SCHOOL LOAN, 1903

Appropriation		$520 00
Expended	$520 00	
		$520 00

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SCHOOL LOAN, 1905, GENERAL

Appropriation		$180 00
Expended	$180 00	
		$180 00

SCHOOL LOAN, 1905, HIGH

Appropriation		$2,900 00
Expended	$2,900 00	
		$2,900 00

SCHOOL LOAN, 1905, No. 2, HIGH

Appropriation		$1,040 00
Expended	$1,040 00	
		$1,040 00

SCHOOL LOAN, 1907

Appropriation		$720 00
Expended	$720 00	
		$720 00

SCHOOL LOAN, 1909

Appropriation		$525 00
Expended	$525 00	
		$525 00

SCHOOL LOAN, 1910, WASHINGTON

Appropriation		$3,200 00
Expended	$3,200 00	
		$3,200 00

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STREET LOAN, 1903

Appropriation		$1,380 00
Expended	$1,380 00	
		$1,380 00

STREET LOAN, 1908

Appropriation		$840 00
Expended	$840 00	
		$840 00

DREDGING LOAN, 1903

Appropriation		$1,200 00
Expended	$1,200 00	
		$1,200 00

DREDGING LOAN (A) 1903

Appropriation		$200 00
Expended	$200 00	
		$200 00

PARK LOAN, 1896

Appropriation		$520 00
Expended	$520 00	
		$520 00

PUBLIC PARK LOAN, 1906

Appropriation		$340 00
Expended	$340 00	
		$340 00

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PLAYGROUND LOAN, 1910, WARD 1

Appropriation		$340 00
Expended	$340 00	
		$340 00

FIRE LOAN, 1906

Appropriation		$360 00
Expended	$360 00	
		$360 00

BRIDGE LOAN, 1909

Appropriation		$647 50
Expended	$647 50	
		$647 50

PUBLIC LIBRARY LOAN, 1909

Appropriation		$480 00
Expended	$480 00	
		$480 00

CITY HALL IMPROVEMENT LOAN, 1910

Appropriation		$200 00
Expended	$200 00	
		$200 00

POLICE SIGNAL LOAN, 1911

Appropriation		$338 00
Expended	$338 00	
		$338 00

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SCHOOLHOUSE SITE LOAN, 1911, WARD 1

Appropriation		$800 00
Expended	$800 00	
		$800 00

SEWER LOAN, 1912, No. 1

Appropriation		$644 08
Expended	$644 08	
		$644 08

PUBLIC LIBRARY LOAN, 1912

Appropriation		$2,200 00
Expended	$2,200 00	
		$2,200 00

INVESTIGATION FOR ADDITIONAL WATER SUPPLY

Frederick A. Dodge, lunch, car fares and fees at hearings	$71 85
J. M. Cutts, lunches, etc.	5 00
J. A. Whipple & Co., dinners for committee at hearings	66 35
Robert Robertson, dinners and expenses	149 20
James W. Blackmer, incidentals	26 35
Boston & Maine R.R., ride book	13 00
Harper Garage Co., use of autos	70 00
Beverly Times, advertising	1 50
Wm. H. Matheson, one-half expense reporting hearings (with three copies)	212 62
George A. Kimball, "Civil Engineer," engineer	2,091 58
Union Stables, auto service	64 00

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George W. Anderson, counsel	$3,908 00	
J. Murray Cox, transcribing evidence at hearings	103 20	
Robert Spear Weston, professional services	785 25	
H. E. Whiting, professional services	79 58	
		$7,647 48

RECAPITULATION

Appropriation		$8,500 00
Expended	$7,647 48	
Unexpended balance	852 52	
		$8,500 00

INVESTIGATION OF SHORE RIGHTS

Sidney Perley, expert testimony and research of records	$1,141 76	
Ernest R. Mason, legal services	38 58	
Alfred E. Lunt, cash paid for Sheriffs' Fees, etc	224 24	
R. L. Ryder (Sheriff), services and expenses	230 20	
E. S. Smith & Co., transcribing testimony at Land Court, "Morse Case"	210 72	
Willard J. Hale, copies of deeds	43 75	
Ezra Standley, copying records	4 50	
James J. Nugent, auto service	4 00	
Miles Walsh, witness fees	10 50	
		$1,908 25

RECAPITULATION

Appropriation		$2,655 00
Expended	$1,908 25	
Unexpended balance	746 75	
		$2,655 00

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LAND DAMAGE

Twenty-five associates, damages widening Cabot St. at Winter St	$2,500 00	
Augustus A. Galloupe, land taken widening Mechanic St	65 00	
		$2,565 00

Recapitulation

Appropriation		$2,565 00
Expended	$2,565 00	
		$2,565 00

LAND FOR PARK PURPOSES—"MARK WOODBURY LAND"

Appropriation		$28,000 00
Expended	$28,000 00	
		$28,000 00

MACADAMIZING SIMON STREET

Labor, as per pay roll	$1,808 22	
		$1,808 22

Incidentals

Gulf Refining Co., asfaltoil	$519 50	
Edward A. Standley, gravel	3 30	
Standard Oil Co., of N.Y., asphalt road oil	96 64	
		$619 44

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RECAPITULATION

Appropriation		$2,500 00
Labor, as per pay roll	$1,808 22	
Incidentals	619 44	
Unexpended balance	72 34	
		$2,500 00

MAINTENANCE OF ESSEX BRIDGE

Appropriation		$1,303 28
Expended	$1,303 28	
		$1,303 28

MAINTENANCE OF KERNWOOD BRIDGE

Appropriation		$1,876 16
Expended	$1,876 16	
		$1,876 16

MEMORIAL DAY

John H. Chipman, Jr., Post No. 89 G.A.R.,	$350 00	
Preston Post No. 188 G.A.R.	150 00	
		$500 00

RECAPITULATION

Appropriation		$500 00
Expended	$500 00	
		$500 00

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MILITARY AID

Appropriation		$2,000 00
Expended under Chap. 468, Acts 1909	$1,990 00	
Unexpended balance	10 00	
		$2,000 00

MOTOR POLICE PATROL AND AMBULANCE

Appropriation		$3,500 00
William A. Lee, expense of committee	$20 00	
Unexpended balance	3,480 00	
		$3,500 00

NEW FIRE ALARM BOX COR. POND AND MULBERRY STREETS

Appropriation		$75 00
Expended	$75 00	
		$75 00

NEW FIRE ALARM BOX COR. McKAY AND BALCH STREETS

Appropriation		$75 00
Expended	$75 00	
		$75 00

NUMBERING CERTAIN STREETS

Appropriation		$85 00
Unexpended balance	$85 00	
		$85 00

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PARK DEPARTMENT—LABOR

Wallace P. Legro, labor	$765 00	
David C. Goodrich, labor	13 05	
Alfred P. Legro, labor	258 75	
Lucius H. Perry, labor	13 00	
H. W. Byors, labor	142 85	
Charles Tucker, labor	5 00	
C. C. Crombie, labor	10 00	
		$1,207 65

INCIDENTALS

Beverly Gas & Electric Co., lighting	$168 41
New England Tel. &. Tel.Co., telephone service	28 45
S. A. Gwinn, dressing and labor	94 25
Citizen Printing Co., stock and printing	57 50
Cann & Hurlburt, stock and labor	419 18
L. G. Philinte, stock and labor	8 75
William Galloupe, stock and labor	30 60
Walter C. Flavin, stock and labor	31 13
Pickett & Goodwin, stock and labor	70 73
Whitcomb-Carter Co., supplies	43 34
Beverly News Co., supplies	7 34
Irving F. Gould, supplies	8 78
Thomas F. Delaney, supplies	1 00
Ropes Drug Co., supplies	7 00
C. A. Hurd Co., laundry	4 60
Hydro-Palm Soap Co., soap	3 60
J. C. Rauch, dinners	18 20
Andrew Dodge, gravel	8 00
Hoogerzeil's Express, expressing	36 20
Crowley & Lunt, directories	5 00
Geo. F. Hinkley, tin tags	4 75
J. F. Kilham, mileage	17 25
Harper Garage Co., auto service	31 50
M. Grady & Son, repairing sea wall, etc	302 15
J. V. Porter & Co., repairing sea wall, etc.	3 35
H. L. Sargent, rent of typewriter	10 00
W. B. Sargent, electrical supplies	7 55

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Roger Whipple, skiff tender and oars	$16 00	
Patrick Corkery Co., cleaning vaults	10 00	
U.S.M.Co., services at exhibition	40 95	
The Gove Lumber Co., fence wire and posts	8 60	
		$1,504 16

RECAPITULATION

Appropriation		$2,725 00
Labor	$1,207 65	
Incidentals	1,504 16	
Unexpended balance	13 19	
		$2,725 00

PARK LOAN, 1896

Appropriation		$2,000 00
Redemption of Bonds, Nos. 31 and 32	$2,000 00	
		$2,000 00

PAYMENT OF TAXES FOR 1912 "MARK WOODBURY LAND"

Appropriation		$404 74
Expended	$404 74	
		$404 74

PLACING FIRE ALARM WIRES UNDERGROUND

Labor, as per pay roll	$256 00	
		$256 00

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INCIDENTALS

Beverly Times, advertising	$5 00	
William H. Greenlaw, mileage, etc	23 40	
Maguire & Herrick, horse hire	20 00	
Union Stables, horse hire	141 00	
J. W. Lee & Co., stock	21 00	
Greenlaw Electric Co., stock	103 82	
Whitcomb-Carter Co., stock	1 70	
Forman A. Crosby, stock and labor	3 90	
M. Grady & Son, labor	40 00	
Ezra P. Williams, labor	5 10	
Marshall & Moulton Ex. Co., expressing	11 36	
American Express Co., expressing	1 95	
Safety Insulated Wire and Cable Co., cable	935 00	
Irving F. Gould, supplies	08	
The Gamewell Fire Alarm Tel. Co., labor pulling in wires	390 70	
		$1,704 01

RECAPITULATION

Appropriation	$2,000 00	
Transferred from	39 99	
		$1,960 01
Labor, as per pay roll	$256 00	
Incidentals	1,704 01	
		$1,960 01

PLANS AND ESTIMATES FOR PUBLIC LIBRARY BUILDING

Beverly Times, advertising	$9 38	
William Galloupe, incidental expenses	4 60	
Katharine P. Loring, expense of commission	159 37	

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S. Harvey Dow, expense of commission to New York	$48 80	
A. W. Proctor, labor on hedge	3 00	
Cass Gilbert, specifications, etc	3 12	
		$228 27

RECAPITULATION

Appropriation		$464 65
Expended	$228 27	
Unexpended balance	236 38	
		$464 65

PLAYGROUND—WARD 1, MAINTENANCE

Thomas D. Tindley, caretaker	$180 00	
J. J. Deering, instructor	180 00	
Sarah W. Wells, instructor	120 00	
Elizabeth H. Lefavour, instructor	135 00	
Whitcomb-Carter Co., supplies	6 44	
Oliver Ditson & Co., supplies	2 26	
The Horace Partridge Co., supplies	30 25	
James H. Riley, supplies	2 75	
Beverly News Co., supplies	7 00	
J. J. Deering, incidental expenses	3 60	
Sarah W. Wells, incidental expenses	4 80	
F. A. E. Hamilton, fountain, etc	37 40	
		$709 50

RECAPITULATION

Appropriation		$709 60
Expended	$709 50	
Unexpended balance	10	
		$709 60

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PLAYGROUND, WARD 1, IMPROVEMENTS

M. Grady & Son, teams and labor	$995 00	
J. J. Deering, labor	5 00	
		$1,000 00

Recapitulation

Appropriation		$1,000 00
Expended	$1,000 00	
		$1,000 00

PLAYGROUND—WARD 3

Harry L. Briggs, instructor	$135 00	
Jennie E. Hanson, instructor	135 00	
Sarah W. Wells, instructor	15 00	
William Galloupe, stock and labor	126 52	
M. Grady & Son, gravel, teams and labor	149 00	
A. W. Wilson, painting	25 00	
Frank L. Morse, moving building from Broadway	30 00	
Almy, Bigelow & Washburn, supplies	3 89	
Tarbox Drug Co., supplies	3 75	
Beverly News Co., supplies	19 75	
The Horace Partridge Co., athletic supplies	20 75	
F. A. E. Hamilton, hose and rope	23 75	
H. Merritt Wallis, office building	75 00	
Bertha Chapman, musician	18 00	
		$780 41

Recapitulation

Appropriation		$780 81
Expended	$780 41	
Unexpended balance	40	
		$780 81

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PLAYGROUND—WARD 6

John C. McCarthy, caretaker	$280 30	
Martin L. Donovan, instructor	130 00	
Gladys L. St.Clair, instructor	135 00	
D. W. Hardy & Son, supplies	1 10	
F. W. Varney, supplies	1 00	
F. A. E. Hamilton, supplies	12 50	
The Horace Partridge Co., athletic supplies	20 62	
Smith's Express, expressing	1 80	
		$582 32

Recapitulation

Appropriation		$588 83
Expended	$582 32	
Unexpended balance	6 51	
		$588 83

PLAYGROUND—BEVERLY FARMS IMPROVEMENTS

George E. Thurston, flag staff, etc	$25 00	
J. C. McCarthy, teaming flag staff, etc.	13 26	
Connolly Bros., teaming	1 00	
F. A. E. Hamilton, seats and fountain	128 00	
M. T. Murphy, hose	32 00	
D. W. Hardy & Son, supplies	11 45	
F. W. Varney, supplies	14 50	
James B. Dow, supplies	15 75	
Beverly News Co., supplies	33 75	
H. M. & R. E. Hodgkins, stock and labor	79 05	
William Galloupe, stock and labor	78 63	
Wilbur J. Pierce, stock and labor	117 22	
Publicover Bros., stock and labor	432 41	
Daniel Linehan & Co., stock and labor	17 98	
		$1,000 00

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RECAPITULATION

Appropriation		$1,000 00
Expended	$1,000 00	
		$1,000 00

PLAYGROUND LOAN, 1910, WARD 1

Appropriation		$1,000 00
Redemption of Bond No. 2	$1,000 00	
		$1,000 00

POLICE DEPARTMENT—SALARIES

S. Walter Woodberry, chief	$1,200 00	
Otis Burnham, captain	17 28	
Edward F. Wallis, captain	201 90	
Frederick H. Beckford, janitor	910 00	
Webster K. Bray, patrolman	1,001 00	
Ferdinand W. Bray, patrolman	1,001 00	
Joseph F. Clayton, patrolman	1,001 00	
William H. Coakley, patrolman	1,001 00	
John F. Couhig, patrolman	770 00	
Ernest I. Ellis, patrolman	1,001 00	
Timothy Foley, patrolman	192 50	
Alonzo L. Goodhue, patrolman	1,001 00	
Timothy J. Hayes, patrolman	732 50	
Warren O. Jones, patrolman	1,001 00	
Charles W. Mitchell, patrolman	585 75	
Harry S. Monies, patrolman	1,001 00	
Roland M. Pickett, patrolman	770 00	
William L. Pickett, patrolman	950 25	
Louis E. Shaw, patrolman	770 00	
John A. Stone, patrolman	998 25	
Edward F. Wallis, patrolman	808 50	
John S. Welch, patrolman	1,001 00	
Calvin L. Williams, patrolman	1,001 00	
Frederick R. Wilson, patrolman	1,001 00	
Michael H. Wittenhagen, patrolman	931 50	
		$20,849 43

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RECAPITULATION

Appropriation	$28,403 00	
Transferred from	4,500 00	
		$23,903 00
Expended	$20,849 43	
Unexpended balance	3,053 57	
		$23,903 00

POLICE DEPARTMENT—MAINTENANCE

RESERVE AND SPECIAL OFFICERS

George C. Andrews, special officer	$221 62	
Arthur H. Burnham, special officer	4 91	
Edmund Sullivan, special officer	272 25	
Emery B. Hooper, special officer	594 71	
John F. Couhig, reserve officer	154 00	
Edward F. Glidden, reserve officer	539 76	
Timothy J. Hayes, reserve officer	133 08	
Emery B. Hooper, reserve officer	207 61	
Eugene Marley, reserve officer	501 60	
George H. Merrill, reserve officer	902 76	
Roland M. Pickett, reserve officer	156 43	
John W. Semple, Jr., reserve officer	293 29	
Louis E. Shaw, reserve officer	151 25	
Clifford W. Standley, reserve officer	816 75	
Dominick Tahaney, reserve officer	822 25	
William J. Tobin, reserve officer	538 41	
		$6,310 68

INCIDENTALS

New England Tel. & Tel. Co., telephone service	$150 68	
Beverly Gas & Electric Co., lighting	162 01	
Marston & Sturtevant, supplies	5 90	
E. E. Gray Co., supplies	7 89	
John Daniels, supplies	2 65	

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Whitcomb-Carter Co., supplies	$28 90
Greenlaw Electric Co., supplies	50 98
Kennedy & Co., supplies	1 40
Thomas F. Delaney, supplies	14 48
A. C. Lunt, supplies	22 20
Almy, Bigelow & Washburn, supplies	6 80
Beverly News Co., supplies	8 47
Irving F. Gould, supplies	18 38
American Express Co., expressing	2 10
Matheson Novelty Shop, supplies	4 90
M. Linskey & Bros., supplies	6 95
Joseph W. Lee & Co., supplies	11 15
Library Bureau, supplies	8 75
H. F. Moore, supplies	6 26
Rogers & Chase, supplies	5 68
P. Fossa, supplies	2 00
Ropes Drug Co., supplies	1 31
John H. Newell, supplies	5 00
Trask & Hopkins, supplies	70
Frank E. Berry, supplies	17 75
The Hammond Typewriter Co., supplies and exchange	82 14
William Reed & Son, equipment supplies	153 45
Union Stables, transportation	35 75
Desmond's stables, transportation	34 00
Peter F. Callely, transportation	3 50
Maguire & Herrick, transportation	10 00
Wyatt & Trowt, transportation	50
James J. Nugent, transportation	27 50
Winthrop F. Lowe, transportation	9 75
Calvin L. Williams, mileage	2 80
William L. Pickett, mileage	75
John S. Welch, mileage	3 95
Webster K. Bray, mileage	65
Harry S. Monies, mileage	1 50
S. Walter Woodberry, mileage and incidental expenses	111 53
Warren O. Jones, mileage and incidental expenses	6 35

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Maguire & Herrick, horse hire and care of ambulance	$379 45
William A. Lee, expense of committee, etc	19 50
Robert Robertson, stock and labor	14 83
Andrew Stanley, stock and labor	122 75
John B. Hill & Son, stock and labor	7 85
E. F. Hickey, stock and labor	6 25
F. A. E. Hamilton, stock and labor	3 00
Cann & Hurlburt, stock and labor	200 36
Pickett & Goodwin, stock and labor	43 08
Friend Bros., stock and labor	12 00
Citizen Printing Co., stock and printing	64 95
Publicover Brothers, stock and labor, Station 2	32 98
Dexter W. Howard, labor on locker at No. Beverly	6 00
Ira A. Smith, labor	1 20
P. McSwiney, moving police signal box	5 09
Newton E. Thompson, repairs to motor cycle	25 00
Marshall & Moulton Ex. Co., expressing	8 35
Hoogerzeil's Express, expressing	113 30
S. M. Hill & Co., ice	23 40
T. B. Knowlton, electrical supplies	31 61
Knox & Morse Co., disinfectant	15 75
Hydro-Palm Soap Co., soap powder	5 50
Frederick H. Beckford, laundry, etc	19 42
Waterbury Button Co., buttons	18 00
Dodge-Haley & Co., lamp hanger	5 00
Gulf Refining Co., gasoline	55 15
L. E. Felton, matches	1 00
Leon G. Philinte, awning	5 00
George C. Andrews, services	13 75
Geo. B. Robbins Disinfectant Co., spray	10 00
Henry K. Barnes, motor cycle belt	5 63
Field & Kennedy, bag	3 95
M. E. Robb, photographing prisoners	2 00
William H. McSweeney, legal services	10 00
Beverly Times, advertising	3 00

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Ingalls & Kendricken, radiators, etc.....	$88 16
J. L. Hammett & Co., dictionary.....	10 80
H. M. Meek Publishing Co., directory.....	4 00
Crowley & Lunt, directory.....	2 50
Louis S. Smith, repairing clock.....	1 00
Arthur A. Forness, insurance.....	17 15
Pettingill, Andrews & Co., electric bell ...	30 40
Eli R. Hodgkins, painting Farms Station .	32 00
J. H. Baggett & Co., Massachusetts Manual.....	1 00
Gamewell Fire Alarm Co., register paper..	47 47
Samuel G. Church, lunches for prisoners..	33 45
Milo A. Newhall & Co., books.....	11 00
Joseph F. Kilham, motor cycle, supplies and repairs.....	583 18
McSweeney & McSweeney, legal services .	15 00
Harry Landers, meals for officers, July 3–4,	8 50
Harry F. Standley, taking notes and transcribing hearing.....	40 50
John B. Skinner, services 12 Salem Police, September 25.....	36 00
American Water Supply Co., bracket and cups.....	20 00
Thomas J. McDonnell, constable.....	4 10
George F. Ober, keeper, Station 2.....	53 00
George C. Andrews, special officer, July 3–4.....	7 56
A. C. Brown, special officer, July 3–4.....	3 24
A. H. Burnham, special officer, July 3–4...	7 02
F. P. Hunkins, special officer, July 3–4 ...	3 24
E. F. Gildden, special officer, July 3–4....	4 59
Emery B. Hooper, special officer, July 3–4	7 29
George A. Lunt, special officer, July 3–4..	3 24
Thomas J. McDonnell, special officer, July 3–4.....	5 94
Eugene Marley, special officer, July 3–4..	7 83
George T. Perkins, special officer, July 3–4,	3 24
Edmund Sullivan, special officer, July 3–4	2 70
John W. Semple, Jr., special officer, July 3–4.....	1 89

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Clifford W. Standley, special officer, July 3–4	$1 35	
William Tobin, special officer, July 3–4	7 83	
Dominick Tahaney, special officer, July 3–4	2 70	
George Tucker, special officer, July 3–4	7 83	
William R. Tucker, special officer, July 3–4	5 94	
Charles G. Waitt, special officer, July 3–4	6 48	
Frank S. Raymond, special officer, July 3–4	7 56	
		$3,468 19

RECAPITULATION

Appropriation	$5,708 00	
Transferred to	4,500 00	
		$10,208 00
Reserve and special officers	$6,310 68	
Incidentals	3,468 19	
Unexpended balance	429 13	
		$10,208 00

POLICE SIGNAL SYSTEM

Appropriation		$8,450 00
Expended	$8,448 00	
Unexpended balance	2 00	
		$8,450 00

POLICE SIGNAL LOAN "1911"

Appropriation		$4,250 00
Redemption of note No. 1	$4,250 00	
		$4,250 00

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POOR DEPARTMENT—SALARIES

Walter Farnham, superintendent	$600 00	
Ada Farnham, matron	300 00	
Norman M. MacLeod, city physician	600 00	
James A. Wright, clerk	600 00	
William C. Morgan, member of board	50 00	
Frank A. Woodbury, member of board	50 00	
James A. Wright, member of board	50 00	
		$2,250 00

Recapitulation

Appropriation		$2,250 00
Expended	$2,250 00	
		$2,250 00

POOR DEPARTMENT—MAINTENANCE

Cash Allowance

Board, rent and nursing	$1,807 37	
		$1,807 37

Goods Delivered Persons Out of Almshouse

Marston & Sturtevant, groceries	$327 50
Mary Sullivan, groceries	377 85
John Cullivan, groceries	334 00
Heaphy Brothers, groceries	429 90
William Cullivan, groceries	429 84
Beverly Public Market, groceries	325 50
William F. Smallie, groceries	237 17
W. H. Buckle, groceries	143 00
Ernest P. Spiller, groceries	79 91
H. P. Woodbury & Son, groceries	178 00
George E. Clarke, groceries	27 93
Edgar N. Todd, groceries	8 00
Govoni Bros., groceries	6 00

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Cyrus F. Miller, groceries	$2 00	
H. F. Moore, groceries	196 52	
Forrant's Market, groceries	522 37	
A. H. Torrey & Co., groceries	15 00	
Mary Yass, groceries	36 00	
Beverly Co-operative Asso., groceries	26 00	
Antonio Sacco, groceries	61 50	
I. O. Edwards, groceries	26 00	
E. E. Gray Co., groceries	2 00	
Harry W. Clarke, groceries	4 00	
William H. Griffin, shoes, etc.	165 80	
Rantoul Shoe Co., shoes, etc.	17 65	
Edmund Giles, shoes	2 00	
Harry C. Webber, shoes	113 65	
Field & Kennedy, furnishings, etc.	35 69	
Dudley N. Griffin, furnishings, etc.	6 00	
H. W. Billings Co., furnishings, etc.	29 00	
City of Salem, aid rendered	154 35	
Town of Peabody, aid rendered	26 11	
Town of Danvers, aid rendered	5 00	
		$4,351 24

ALMSHOUSE

New England Tel. & Tel. Co., telephone service	$39 81	
Beverly Gas & Electric Co., lighting	220 49	
J. F. White, nursing	366 00	
Helen M. Bennett, nursing	25 00	
Benjamin T. Clark, nursing	26 40	
Annie Long, nursing	80 00	
Mary Young, nursing	3 00	
Theresa Griffin, cook	260 00	
Levi B. Tibbetts, cook	240 00	
Sarah H. Clark, labor	120 00	
Frank Preston, labor	340 00	
Joseph A. Standley, labor	104 40	
Charles A. Clark, labor	48 00	
Albert Crandell, labor	28 00	
Dominick Gentile, labor	9 00	

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Nareora Farino, labor	$16 00
Paul B. Patten, labor	1 40
Beverly Times, advertising	50
Samuel H. Stone, advertising	1 00
Marshall & Moulton Ex. Co., expressing	9 89
Preston's Express, expressing	1 00
American Express Co., expressing	35
Boston & Maine R.R., freight	2 28
W. B. Radford & Co., tobacco	26 88
United States Tobacco Co., tobacco	45 80
William B. Cahoon, barber	79 55
William H. Burchstead, barber	4 40
A. F. Thompson, services	33 75
A. L. Norcross, killing and dressing hog	21 00
Mrs. P. Guinivan, cow	40 00
Arthur W. Day, curing ham	7 00
Swift & Company, butterine	42 00
Vermont Mfg. Co., butterine	50 40
New England Mfg. Co., butterine	37 35
National Biscuit Co., crackers	20 31
A. C. Lunt, supplies	41 63
Rogers & Chase, supplies	127 38
Beverly Co-operative Asso., supplies	993 48
Horace P. Woodbury & Son, supplies	207 29
Horlick Malted Milk Co., supplies	10 00
Whitcomb-Carter Co., supplies	121 99
Richardson, Wright & Co., supplies	3 75
1900 Washer Co., supplies	30 00
C. L. Doble & Co., supplies	95 15
C. L. Howe & Co., supplies	6 40
G. F. Gurney Co., supplies	15 65
William Cullivan, groceries	189 21
E. E. Gray Co., groceries	148 73
James A. Smith, groceries	8 75
Marston & Sturtevant, groceries	434 06
Forrant's Market, groceries	33 05
Frederick Small & Co., coffee	212 87
Samuel Cole, potatoes	53 00
Peter E. Clark, potatoes	42 00
William Stopford & Co., fish	122 90

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Benjamin Huntoon, fish	$52 92
Miley Soap Co., soap	122 50
S. M. Hill & Co., ice	6 75
Beverly Independent Ice Co., ice	108 46
A. Dodge & Son (Corp.), provender	296 68
Jacob Burkhardt, provender	98 60
Rantoul Shoe Co., shoes	2 50
William H. Griffin, shoes	31 85
Harry C. Webber, shoes	16 95
H. W. Billings Co., clothing	1 96
Newell Dry Goods Co., dry goods	109 82
Field & Kennedy, furnishings	22 55
Almy, Bigelow & Washburn, coat	1 98
Samuel A. Gentlee & Son, burial	10 00
Lee & Cressy, burials	20 00
John H. Moore, medicines	86 62
Frank E. Berry, medicines	2 85
Charles A. Baker, medicines	77 84
Thomas F. Delaney, medicines	21 09
Joseph W. Lee & Co., electrical supplies	64 15
Greenlaw Electric Co., electrical supplies	2 78
Friend Bros., shoeing	2 25
Charles T. Young, shoeing	33 05
George B. Robbins Disinfectant Co., disinfectants	10 00
The Sanitas Co., disinfectants	16 50
Worrell Mfg. Co., disinfectants	24 00
Harper Garage Co., auto service	14 00
Maguire & Herrick, horse hire	1 00
Union Stables, transportation	14 75
N. S. Heron, car fares, etc.	4 30
Frank L. Morse, use of horse and labor	27 00
Edward F. Hickey, stock and labor	16 75
Pickett & Goodwin, stock and labor	173 24
A. L. Crosby & Co., stock and labor	17 70
Irving F. Gould, stock	50
J. F. Pope & Son, stock	29 90
William H. Croscup, repairing cart	21 75
Duren & Kendall, repairs to washer	2 75
John J. Harrigan, lime, etc.	3 80

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Gove Lumber Co., lumber, etc.	$65 90	
Dudley N. Griffin, furnishings	18 60	
Somerville Brush Co., brushes	24 40	
Crowley & Lunt, directories	5 00	
Samuel A. Byron, wood	49 50	
B. Larcom & Co., plants	9 90	
Brewer & Co., sweeping compound	6 25	
		$6,999 89

INCIDENTALS

New England Tel. & Tel. Co., telephone service	$24 74
Beverly News Co., supplies	5 65
H. M. Messerve & Co., supplies	85
The Hammond Typewriter Co., supplies	2 49
F. S. Webster & Co., supplies	1 00
Hobbs & Warren, supplies	5 00
W. A. Batchelder, supplies	3 00
Charles A. Baker, medicines	104 22
Thomas F. Delaney, medicines	49 50
F. W. Varney, medicines	2 90
Delaney & Pert, medicines	10 00
J. H. Moore, medicines	82 55
Tarbox Drug Co., medicines	2 20
S. A. Gentlee & Son, burials	15 00
J. F. Desmond & Co., burials	65 00
Lee & Cressy, burials	33 00
Desmond's Stable, carriage hire	1 50
Boston & Maine R.R., care fares	9 89
J. F. Kilham, transportation	19 25
James A. Wright, incidental expenses	27 20
A. G. Roderick, moving furniture	4 00
Robert E. Whipple, laundry	3 05
Hoogerzeil's Express, expressing	1 00
Francis G. Stanley, M.D., professional services	1 50
Peer P. Johnson, M.D., consultation	6 00
Hammond Typewriter Co., exchange of typewriter	40 00

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J. L. Fairbanks & Co., one register	$5 00	
Bank & Office Equipment Co., steel case	120 00	
Citizen Printing Co., stock and printing	5 75	
H. M. Meek Publishing Co., directory	4 00	
		$655 24

RECAPITULATION

Appropriation		$14,250 00
Board, rent and nursing	$1,807 37	
Goods delivered out of house	4,351 24	
Almshouse	6,999 89	
Incidentals	655 24	
Unexpended balance	436 26	
		$14,250 00

PUBLIC LIBRARY—SALARIES

Martha P. Smith, librarian	$812 50
Lillian A. Culbert, librarian, Farms	429 12
Jennie P. Dodge, assistant	485 40
Ethel S. Dodge, assistant	485 40
Marjorie H. Stanton, assistant	485 40
Eleanor G. Simonds, assistant	260 00
Eleanor G. Walker, substitute	74 80
Elizabeth R. Simonds, substitute	4 00
E. V. Churchill, substitute, Farms	14 00
Guy M. Jones, page	94 33
Carl Stanton, page	105 51
Chauncey Hood, page	18 63
Gardner B. Fassett, page	52 57
Lawrence Dodge, page	13 88
Edmond L. Morrison, page	15 88
H. Gordon Ellis, page	37 51
John B. Hill, page	15 26

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Robert Standley, page	$4 00	
Mrs. Horace E. Elliott, care of Centerville Library	50 00	
Benjamin W. Roberts, care of North Beverly Library	75 00	
		$3,533 19

Books, Magazines, Etc.

The Essex Institute, books, etc.	$12 00
John Lane Co., books, etc.	5 00
W. B. Clarke Co., books, etc.	1,392 41
Boston Book Co., books, etc.	126 50
The H. R. Hunting Co., books, etc.	17 83
De Wolfe & Fiske Co., books, etc.	238 94
Sampson, Murdock & Co., books, etc.	6 00
The H. W. Wilson Co., books, etc.	15 50
Mercantile Press Club, books, etc.	1 25
Massachusetts Magazines, books, etc.	2 50
D. Van Nostrand Co., books, etc.	26 28
Michelson Brothers, books, etc.	106 34
North American Civic League, books, etc.	5 00
P. S. Rorke, books, etc.	1 00
Architectural Record Co., books, etc.	3 00
The Schoenhof Book Co., books, etc.	27 72
Caroline L. Himibaugh, books, etc.	30 30
R. H. White & Co., books, etc.	30 12
Nettie Woodbury, books, etc.	2 95
The Metropolitan Museum of Art, books, etc.	1 06
The A.L.A. Publishing Board, books, etc.	1 20
The Dyer Publishing Co., books, etc.	10 00
Thomas O. Nichols & Son Co., books, etc.	2 00
The Elm Tree Press, books, etc.	1 00
Charles E. Lauriat Co., books, etc.	17 50
Munn & Co., books, etc.	1 35
R. H. Hinkley Co., books, etc.	35 00
The Educational Association, books, etc.	6 00
Oxford University Press, books, etc.	45 36
The Arthur S. Clarke Co., books, etc.	45 00

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James H. Lamb Co., books, etc.	$7 50	
Himebauge & Brown, books, etc.	13 46	
Engineering Publishing Co., books, etc.	2 00	
Jordan, Marsh & Co., books, etc.	101 50	
The Book-lovers Library, rental	63 00	
New Fiction Library, rental	10 50	
The Dial Co., subscription	2 00	
The Beverly News Co., subscription	10 60	
The National Geographical Society, subscription	2 50	
American Forestry Asso., subscription	3 00	
		$2,432 17

INCIDENTALS

Beverly Gas & Electric Co., lighting	$202 18	
Beverly Gas & Electric Co., lighting, Beverly Farms	20 75	
Beverly Gas & Electric Co., lighting Annex	24 04	
William H. Lewis, care of Annex	50 74	
Robert R. Endicott, rent of Annex	250 00	
Remington Typewriter Co., supplies	7 40	
Whitcomb-Carter Co., supplies	17 65	
Hobbs & Warren, supplies	9 00	
Greenlaw Electric Co., supplies	37 87	
The Beverly News Co., supplies	19 90	
H. B. McArdle, supplies	13 69	
Matheson Novelty Shop, supplies	6 10	
Preston's Express, expressing	47 65	
L. A. Dunn & Co., expressing	76 25	
Marshall & Moulton Ex. Co., expressing	18 30	
S. M. Hill & Co., ice	16 80	
Arthur A. Forness, insurance	281 50	
Andrew Stanley, stock and labor	7 25	
Rogers & Chase, stock and labor	18 22	
G. W. Larcom, stock and labor, Farms	37 00	
J. V. Porter & Co., labor	1 00	
Mrs. E. B. Foster, labor on books	45 75	
Stone & Forsyth, covers	16 00	
The National Book Cover Co., covers	2 50	

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The Universal Binder, binders	$26 05	
Edward L. Perley, binding	5 70	
F. J. Barnard & Co., binding and rebinding,	251 89	
H. A. Kent, recasing and rebinding	40 00	
Irving W. Allen, printing	22 50	
The Citizen Printing Co., printing, etc.	27 15	
Library Bureau, cards	23 55	
Crowley & Lunt, directory	2 50	
Sampson, Murdock & Co., directory	6 00	
H. M. Meek Publishing Co., directory	4 00	
Gaylord Bros., catalog cards and holders.	34 40	
Newcomb & Gauss, bulletins	138 19	
The Elm Tree Press, copy of large picture,	1 00	
The Library Art Club, assessment	6 00	
Leon G. Philinte, awning and labor	10 50	
Crystal Spring Paste Co., paste	1 20	
Derby Desk Co., table	31 50	
A. C. Lunt, sectional book-case (No. Beverly)	11 75	
Martha P. Smith, sundries	98 19	
		$1,969 61

RECAPITULATION

Appropriation		$8,019 66
Salaries	$3,533 19	
Books, magazines, etc	2,432 17	
Incidentals	1,969 61	
Unexpended balance	84 69	
		$8,019 66

PUBLIC LIBRARY LOAN, 1909

Appropriation		$2,000 00
Redemption of Bonds, Nos. 5 and 6	$2,000 00	
		$2,000 00

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PUBLIC LIBRARY BUILDING LOAN, 1911

Appropriation		$6,000 00
Redemption of Bonds, Nos. 1, 2, 3, 4, 5, 6	$6,000 00	
		$6,000 00

PUBLIC PARK LOAN, 1906

Appropriation		$1,000 00
Redemption of Bond No. 6	$1,000 00	
		$1,000 00

PUBLIC PARK LOAN, 1912

Appropriation		$86 80
Unexpended balance	$86 80	
		$86 80

PUBLIC PROPERTY

Beverly Gas & Electric Co., lighting City Hall	$485 22
New England Tel. & Tel. Co., telephone service	285 34
William H. Hinchliffe, labor at City Hall	500 24
Emma F. Thissell, labor on flag	2 00
John Demings, labor on steps	6 75
Henry E. Dodge, labor, etc. (Park)	167 33
L. G. Philinte, labor on flag staff	20 00
Pickett & Goodwin, stock and labor	8 77
Andrew Stanley, stock and labor	317 91
Thomas J. McDonnell, stock and labor	13 40
Walter C. Flavin, stock and labor	6 55

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Lorenzo Colson, stock and labor	$6 50
J. V. Porter & Co., stock and labor	10 95
Lee & Cressy, stock and labor	4 00
Otis M. Baker, stock and labor	11 80
Edward Standley, gravel	6 00
Andrew Dodge, gravel	4 00
Mrs. S. L. Mackey, repairing flag (Farms)	3 00
John B. Hill & Son, labor	5 50
J. Elmer Wood, labor	50
F. W. Williamson, labor	1 50
Cann & Hurlburt, repairing roof at City Hall, etc	263 90
H. M. St. Clair, table top (assessors)	20 00
Walter H. Hill, curtain for stage, City Hall	5 00
Whitcomb-Carter Co., supplies	33 92
Greenlaw Electric Co., supplies	33 68
Irving F. Gould, supplies	38 09
A. C. Lunt, supplies	12 05
Beverly News Co., supplies	1 50
F. A. E. Hamilton, supplies	16 20
Joseph W. Lee & Co., supplies	15 32
Robert Robertson Co., supplies	3 30
Henry Bushek, inspecting boilers	4 00
Ingalls & Kendricken, installing boiler, City Hall	640 00
Ingalls & Kendricken, installing boiler, Police Station	298 00
Benjamin A. Patch, insurance on Lamson house	5 25
Marion Press, order blanks	2 50
Hoogerzeil's Express, teaming	157 25
William R. Tucker, sundries	1 80
J. Burkhardt, salt	75
Nehemiah S. Heron, care of bell and clock	41 70
Gove Lumber Co., lumber	3 42
Somerville Brush Co., brushes	11 05
Wakefield Chemical Co., disinfectants	35 25
B. Larcom & Co., plants and labor	42 97

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Prince Ober, one-half cost of fence	$69 25	
The Hammond Typewriter Co., exchange	30 00	
McQueeney Brothers, electric supplies	2 75	
Bank & Office Equipment Co., case for Sealer of Weights and Measures	131 00	
Bank & Office Equipment Co., steel vault case	412 50	
		$4,199 66

RECAPITULATION

Appropriation		$4,442 44
Expended	$4,199 66	
Unexpended balance	242 78	
		$4,442 44

PURCHASE OF ADDITIONAL LAND FOR SCHOOL-HOUSE, WARD 1

Appropriation		$5,500 00
Chas. H. Herrick and Geo. E. Pickett, adm.	$5,500 00	
		$5,500 00

PURCHASE OF AUTO TRUCK—WATER DEPARTMENT

Labor of men	$181 24	
Harper Garage Co., auto truck	2,250 00	
Beverly Times, advertising	2 50	
James W. Blackmer, registration	5 00	
Eagle Oil & Supply Co., supplies	14 66	
Harper Garage Co., supplies and labor	43 27	
		$2,496 67

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RECAPITULATION

Transferred to		$2,500 00
Expended	$2,496 67	
Unexpended balance	3 33	
		$2,500 00

PURCHASE OF COMBINATION MOTOR WAGON FOR FIRE DEPARTMENT

American LaFrance Engine Co., chemical and Hose Motor Car	$5,800 00	
American LaFrance Engine Co., painting seal on car	20 00	
William A. Lee, expenses of committee	43 67	
Harper Garage Co., auto service	69 50	
Beverly Times, advertising	3 00	
Sexton Can Co., two ground tanks	22 50	
		$5,958 67

RECAPITULATION

Appropriation		$6,000 00
Expended	$5,958 67	
Unexpended balance	41 33	
		$6,000 00

PURCHASE OF FIRE HOSE

Appropriation		$1,275 00
Unexpended balance	$1,275 00	
		$1,275 00

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PURCHASE OF SCHOOLHOUSE SITE—

WARD 1

Appropriation		$20,000 00
Benj. A. Patch	$20,000 00	
		$20,000 00

PURCHASE OF STEAM FIRE ENGINE,

WEST STREET STATION

Combination Ladder Co., steam fire engine	$5,425 00	
D. Linehan & Son, hauling engine	5 00	
John E. Spencer, services testing engine	25 00	
H. C. Farrell, services testing engine	15 00	
Thomas F. Ganley, services at trial	2 50	
Arthur C. Standley, services at trial	2 50	
Beverly Gas & Electric Co., coal at trial	4 05	
William A. Lee, expense of committee at trial	38 75	
James McPherson, expense of committee to Providence, R.I.	30 00	
Israel T. Webber, rent of hall	3 50	
Dirigo Creamery Co., catering	31 25	
Mrs. G. A. Ryan, dinners	3 40	
Harper Garage Co., auto services	7 50	
Charles A. Baker, supplies	1 90	
Citizen Printing Co., printing	1 40	
		$5,596 75

RECAPITULATION

Appropriation	$5,747 00	
Transferred from	150 25	
		$5,596 75
Expended	$5,596 75	
		$5,596 75

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PURCHASE OF STEAM ROAD ROLLER

Appropriation		$3,800 00
Expended	$3,800 00	
		$3,800 00

REBUILDING STEAM FIRE ENGINE—No. 3

Asa W. LaFrance Fire Engine Co., contract	$2,256 00	
Beverly Times, advertising	5 00	
William A. Lee, expense of dinners	12 80	
		$2,273 80
RECAPITULATION		
Appropriation	$2,500 00	
Transferred from	226 20	
		$2,273 80
Expended	$2,273 80	
		$2,273 80

RECONSTRUCTION OF HERRICK STREET

M. Grady & Son, contract	$1,610 22	
M. Grady & Son, building boundary wall	445 00	
Cann & Hurlburt, changing steps and building fence	427 28	
Lovejoy Granite Co., curbing	425 93	
Boston & Maine R.R., freight	79 99	
Labor of men	300 00	
Edward A. Standley, sod	23 00	
		$3,311 42

RECAPITULATION		
Appropriation		$3,336 11
Expended	$3,311 42	
Unexpended balance	24 69	
		$3,336 11

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RECONSTRUCTION OF RETAINING WALL AT HERRICK STREET

Appropriation		$250 00
Labor, as per pay roll	$248 59	
Unexpended balance	1 41	
		$250 00

RECONSTRUCTION OF A PORTION OF CABOT STREET

Labor, as per pay roll	$5,016 10	
The Globe Newspaper Co., advertising	22 95	
Beverly Times, advertising	8 13	
Whitcomb-Carter Co., supplies	22 60	
Good Roads Machinery Co., supplies	50 00	
George H. Sampson, supplies	5 50	
The Dyar Supply Co., supplies	40 40	
John Buckley, brick	315 00	
J. J. Harrigan, cement	105 00	
Edward A. Standley, gravel	3 75	
J. F. Pope & Son, lumber	4 36	
George E. Teague, pipe	351 74	
M. F. Harkins, oil	47 60	
Puritan Iron Works, iron frames and covers	645 05	
Barbour, Stockwell & Co., drain-gates, etc.	23 00	
Simpson Brothers, Corporation, paving and extra labor	265 46	
Boston & Maine R.R., freight	16 81	
Union Stables, auto service	10 00	
Josiah B. Brown, ride book	13 00	
William A. Lee, expense of committee	12 05	
Ira A. Smith, stock and labor	3 75	
Simpson Brothers, Corporation, contract	5,796 91	
		$12,779 16

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RECAPITULATION

Appropriation		$35,000 00
Expended	$12,779 16	
Unexpended balance	22,220 84	
		$35,000 00

REIMBURSEMENT OF CAR FARES TO MEMBERS OF CITY COUNCIL

Appropriation		$100 00
William C. Blaisdell, car fares	$10 30	
Unexpended balance	89 70	
		$100 00

REMOVAL OF SHADE TREES, CABOT STREET

Appropriation		$150 00
Labor, as per pay roll	$142 95	
Unexpended balance	7 05	
		$150 00

REMOVAL OF SHADE TREE, WHITNEY AVENUE

Appropriation		$25 00
Labor, as per pay roll	$22 13	
Unexpended balance	2 87	
		$25 00

REPAIRS OF SIDEWALKS

Simpson Bros., Corporation, contract	$828 40	
John C. Fowler, contract	434 25	
John Buckley, brick	1,092 00	
		$2,354 65

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RECAPITULATION

Appropriation	$1,700 00	
Transferred to	666 19	
		$2,366 19
Expended	$2,354 65	
Unexpended balance	11 54	
		$2,366 19

SALARY ACCOUNT

Frederick A. Dodge, Mayor	$1,000 00	
Luther S. Herrick, City Clerk	1,500 00	
Andrew S. Edwards, City Collector	1,350 00	
Henry S. Parker, City Auditor	1,000 00	
Charles F. Lee, City Treasurer	1,000 00	
William R. Tucker, City Messenger	1,000 00	
William A. Lee, Clerk of Committees	1,200 00	
Robert J. Rafferty, Sealer of Weights and Measures	700 00	
John M. Murney, Assessor	1,000 00	
Hervey Lunt, Assessor	1,000 00	
Theodore A. Holmes, Assessor	1,000 00	
Mabel B. Perry, Assistant City Clerk	500 00	
Carrie W. Cann, Assistant to City Collector	208 10	
Beulah M. Higgins, Assistant to City Collector	291 90	
Charles F. Lee, Treasurer of Sinking Fund,	400 00	
George P. Brown, Registrar of Voters	100 00	
John F. Hill, Registrar of Voters	100 00	
Charles H. Woodbury, Registrar of Voters	100 00	
Luther S. Herrick, Registrar of Voters	100 00	
Horace D. Lambert, Inspector of Animals and Provisions	250 00	
		$13,800 00

RECAPITULATION

Appropriation		$13,800 00
Expended	$13,800 00	
		$13,800 00

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SCHOOL DEPARTMENT—SALARIES

Administration Salaries

Robert O. Small, superintendent	$2,500 00	
Clifton W. Gregg, bookkeeper	12 00	
Sophia E. Corning, bookkeeper	508 00	
Martha W. Pedrick, statistician	405 00	
Mildred F. Hurshman, stenographer	358 26	
Nehemiah S. Heron, truant officer	716 64	
William T. Pepper, assistant truant officer	537 50	
Edmund G. Dodd, custodian	100 00	
Julia Comisky, typewriting	3 00	
F. Goldsmith, office work	4 80	
Leonard R. Churchill, services in laboratory	10 80	
Annie E. Cahill, clerical work	31 60	
Eleanor McNutt, clerical work	17 80	
Winifred A. Macdonough, clerical work	19 90	
I. Merieta Wilson, clerical work	1 95	
Helen L. Gladding, clerical work	31 78	
Rachel Lewis, clerical work	12 00	
Carl E. Herrick, clerical work	12 75	
Charlotte Hutchinson, clerical work	1 00	
Helen D. Bradstreet, substitute statistician	34 30	
		$5,319 08

Teachers' Salaries

Charles S. Brown, prin., Bass River School	$500 00
Mabel A. Wallis, teacher " " "	650 00
Susan T. Linnell, " " " "	650 00
Ethel S. Merrow, " " " "	550 00
Nellie G. Stubbert, " " " "	650 00
M. Estelle Ramsdell, asst. " " "	650 00
Alice M. Billings, sub., " " "	2 50
Sadie Dodd, " " " "	11 00
Mrs. Rosamond K. Tarr, " " " "	8 13
Mrs. E. L. Sweetman, " " " "	3 00
Mary J. McCarthy, " " " "	2 00

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Bertha Drugan, prin.,	Centerville School	$700 00
Alice P. Williams, teacher,	" "	517 50
Mrs. C. B. Gillis, sub.	" "	34 13
Elizabeth P. Martin, sub.	" "	1 38
Martha M. Weston, asst.,	" "	220 00
Elizabeth B. Fuller, prin.,	Cove School	350 00
Edith F. Rockwell, teacher	" "	325 00
Stella B. Stockwell,	" " "	587 50
Marguerite Hazen,	" " "	570 00
Laura R. McCurdy,	" " "	650 00
Phoebe Lewis,	" " "	240 00
Mrs. C. B. Gillis, sub.,	" "	74 75
Marietta Woodbury, sub.,	" "	2 00
Mrs. Edna L. Hurlburt, sub.,	Cove "	48 75
Wilhelmina Patterson, prin.,	Farms School	750 00
Elizabeth G. Harding, teacher,	" "	650 00
Anna B. Brooks,	" " "	617 00
Bertha A. Connor,	" " "	568 63
Mary L. Riley,	" " "	520 00
Sara E. Piper,	" " "	650 00
Adelaide L. Day,	" " "	650 00
Mary F. Lowd,	" " "	650 00
Mrs. Alice P. Brooks, sub.,	" "	16 26
Mrs. Edna L. Hurlburt, sub.,	" "	3 25
Mrs. Rosamond K. Tarr, sub.,	" "	3 25
Clara A. Smith, prin.,	Hardie School	1,000 00
Anna B. Hanson, teacher,	" "	260 00
Euphemia K. Potts,	" " "	620 00
Alice E. Winters,	" " "	390 00
Alice G. Lapham,	" " "	650 00
Martha E. Bradstreet,	" " "	570 00
Bessie L. Jardine,	" " "	620 00
Winifred P. Upton,	" " "	650 00
Mary A. Emerson,	" " "	390 00
Clara L. Fletcher,	" " "	30 00
Ethel M. Sawyer,	" " "	275 00
Olive M. Adams,	" " "	650 00
Lillian W. Downing,	" " "	487 50
Agnes M. Moore,	" " "	645 12
Beulah T. Currier,	" " "	520 00

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Mary A. Marston,	teacher,	Hardie	School,	$648 38
A. Florence Munroe,	"	"	"	650 00
Bertha M. Sperry,	"	"	"	220 00
Edith A. Merrill,	"	"	"	260 00
Louise E. Deering,	"	"	"	240 00
Helen H. Todd,	"	"	"	187 50
Mrs. Rosamond K. Tarr,	sub.,	"	"	338 01
Mrs. C. E. Doner,	"	"	"	4 88
Mrs. Clara B. Gillis,	"	"	"	8 13
Carrie Giddings,	"	"	"	2 00
Elizabeth P. Martin,	"	"	"	20 63
Marietta Woodbury,	"	"	"	2 00
Mrs. Chas. A. Burrill,	"	"	"	24 38
Grace R. Perkins,	"	"	"	3 25
Sadie Dodd,	"	"	"	2 00
Mrs. Eva Sweetman,	"	"	"	3 00
B. Sumner Hurd,	prin.,	High	School,	2,240 00
Harold C. Childs,	sub-master,	"	"	1,420 00
Elston E. Gaylord,	"	"	"	1,592 00
Otis M. Riggs,	"	"	"	1,420 00
Priscilla Alden,	assistant,	"	"	776 00
Ruby S. Baker,	"	"	"	820 00
Mabel L. Butler,	"	"	"	510 00
Jennie A. Cole,	"	"	"	870 00
Carrie L. Comings,	"	"	"	870 00
Isabel D. Davidson,	"	"	"	850 00
E. Antoinette Davis,	"	"	"	870 00
Marion R. Dexter,	"	"	"	670 00
Elizabeth B. Emmons,	"	"	"	820 00
Walter W. Herrick,	"	"	"	895 50
Maleen P. Hicks,	"	"	"	850 00
Mary A. Hird,	"	"	"	770 00
Elizabeth A. Horne,	"	"	"	850 00
Laura E. Horne,	"	"	"	802 50
Fay M. Keene,	"	"	"	510 00
John R. King,	"	"	"	390 00
Effie M. Lowe,	"	"	"	780 00
Lucy H. Melcher,	"	"	"	595 50
Laura M. Rogers,	"	"	"	780 00
Ruby Sanborn,	"	"	"	762 00

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Florence E. Teasdale,	ass't,	High	School,	$850 00
A. Lilla Wilde,	"	"	"	1,000 00
Lillian G. Wilkins,	"	"	"	570 00
Julia Goldman,	"	"	"	45 00
Joseph D. Danforth,	"	"	"	480 00
Carl E. Herrick,	"	"	"	340 00
Marion Woodworth,	"	"	"	300 00
Helen C. Skinner,	"	"	"	300 00
Louise J. Cooper,	"	"	"	172 50
Evelyn Thompson,	"	"	"	170 00
Ruth Edgett,	sub.,	"	"	16 00
Marie De Rochement,	"	"	"	20 00
Lina W. Burle,	"	"	"	20 00
Leah Benjamin,	"	"	"	9 00
Edith A. Bancroft,	"	"	"	140 00
Helen C. Owens,	"	"	"	52 00
Catharine Sullivan,	"	"	"	60 00
Katharine M. Ballou,	"	"	"	20 00
Charles S. Brown,	prin.,	McKay	School,	500 00
Cora M. Rogers,	teacher,	"	"	650 00
Ruth M. Moodie,	"	"	"	620 00
Mabel E. Baker,	"	"	"	620 00
Millicent G. Perkins,	"	"	"	620 00
Mabel F. Cressy,	"	"	"	650 00
Norma L. Nugent,	"	"	"	510 00
Myra Hall,	"	"	"	240 00
Marion D. Lord,	"	"	"	60 00
Mrs. Edna L. Hurlburt,	sub.,	"	"	13 00
Mrs. Rosamond K. Tarr,	"	"	"	6 50
Sadie Dodd,	"	"	"	1 00
Winnie M. Williams, principal, Pleasant View School				250 00
Grace E. Hood, teacher, Pleasant View School				650 00
Katherine S. Enlind, teacher, Pleasant View School				650 00
Mrs. S. D. Kinsman, teacher, Pleasant View School				650 00
Aimie A. Woodbury, teacher, Pleasant View School				650 00

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Marietta Woodbury, substitute, Pleasant View School	$2 00
Mrs. Clara B. Gillis, substitute, Pleasant View School	6 50
Lillian E. Rich, substitute, Pleasant View School	12 00
Elizabeth B. Fuller, prin., Prospect School,	650 00
Bertha M. Petrie, teacher, " "	650 00
Elizabeth P. Lefavour, " " "	650 00
Alice M. Preston, " " "	650 00
Harriett L. Abbot, " " "	650 00
Harriet M. Colby, " " "	650 00
Ruth A. McKay, " " "	632 75
Lillian F. Smith, " " "	650 00
Mabel M. Porter, " " "	617 50
Cora O. Reynolds, coach, " "	550 00
Mrs. Rosamond K. Tarr, sub., " "	9 75
Eva Whitman, " " "	27 50
Marietta Woodbury, " " "	27 00
Alice M. Billings, " " "	2 50
May Calef, " " "	33 00
Minnie A. Johnson, prin., Rial Side School,	800 00
Edna L. Ferguson, teacher, " "	650 00
Elizabeth McLean, " " "	646 75
Helen Duane, " " "	520 00
Clara B. Tuttle, " " "	650 00
Angelica Gamboa, " " "	142 50
Maude A. Fowler, " " "	470 00
Martha T. Robinson, " " "	650 00
Helen C. Cooper, " " "	650 00
Elizabeth F. Taaffe, " " "	260 00
Carrie A. Wetherbee, " " "	220 00
Isa L. Buffington, " " "	100 00
Mrs. Edna L. Hurlburt, sub., " "	218 25
Mrs. Eva Lamb, " " "	3 25
Mrs. Eva Sweetman, " " "	63 00
Charlotte Johnson, " " "	3 25
Sadie Dodd, " " "	2 00
Mrs. Rosamond K. Tarr, " " "	3 25

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Winnie M. Williams,	prin.,	South	School,	$750 00
Mabel A. Mathews,	coach teacher,	"		617 50
Eleanor M. Varney,	teacher,	South	School,	650 00
S. Helen Kennison,	"	"	"	650 00
Nellie F. Harrison,	"	"	"	620 00
Ethel S. Swett,	"	"	"	650 00
Fannie O. Johansen,	"	"	"	570 00
Mary L. Woodberry,	"	"	"	650 00
Mary W. Matheson,	"	"	"	320 13
Alice C. Gates,	"	"	"	620 00
M. Louise Hawkes,	"	"	"	646 75
Clara F. Bell,	"	"	"	643 50
Viola E. Crittenden,	"	"	"	648 38
Avis Carleton,	"	"	"	617 00
Elsie M. Taber.	"	"	"	323 37
Floy French,	"	"	"	240 00
Grace H. Merriam,	"	"	"	220 00
Mrs. Clara B. Gillis,	sub.,	"	"	56 88
Mrs. Rosamond K. Tarr,	"	"	"	6 50
Elizabeth P. Martin,	"	"	"	75 63
Marietta Woodbury,	"	"	"	9 00
Carrie Giddings,	"	"	"	3 00
Caroline Knight,	"	"	"	31 00
Emma McC. Driver, principal, Washington School				1,000 00
Elizabeth A. Batchelder, coach teacher, Washington School				330 00
Elizabeth P. Martin, coach teacher, Washington School				350 00
Beulah W. Moody, commercial teacher, Washington School				220 00
Abbie M. Croscup,	teacher,	Wash.	School,	620 00
Addie B. Hobbs,	"	"	"	650 00
Evolyn A. Greenlaw,	"	"	"	650 00
Josephine F. Minard,	"	"	"	650 00
Clara M. L'heureux,	"	"	"	620 00
Margaret F. Herlihy,	"	"	"	650 00
Grace B. Applebee,	"	"	"	650 00
Geneva Lane,	"	"	"	540 00
Elizabeth H. LeFavour,	"	"	"	570 00

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Katherine Johnson, teacher, Wash. School,	$520 00
Viola W. Humes, " " "	385 13
Elizabeth A. Fleming " " "	620 00
Grace E. Dennis, " " "	650 00
Marion H. Blood, " " "	520 00
Anna F. Coe, " " "	230 00
Ruth A. Small, " " "	19 40
Mrs. Rosamond K. Tarr, sub., " "	6 51
Grace R. Perkins, " " "	6 50
Alice G. Starrett, " " "	5 50
Mrs. C. E. Doner, " " "	6 50
Mrs. Edna L. Hurlburt, " " "	188 50
Mrs. Clara B. Gillis, " " "	9 75
Marietta Woodbury, " " "	2 00
Ernest Pitman, " " "	59 00
Sadie F. Dodd, " " "	18 00
Myrtle Holman, " " "	13 00
Alice P. Brooks, " " "	1 63
Mrs. Mary R. Day, " " "	32 50
Ana C. Sargent, supervisor of domestic science	712 50
Helen Sargent, supervisor of drawing	920 00
George F. Wilson, supervisor of music	480 00
James W. Calderwood, supervisor of music,	690 00
Gertrude W. Dexter, assistant supervisor of music	720 00
Effie E. Colby, supervisor of penmanship.	910 00
Elizabeth L. Woodberry, supervisor of sewing	620 00
Charles L. Peirce, supervisor of manual training	1,320 00
Harry L. Gay, assistant supervisor of manual training	840 00
Anna M. Ferrin, assistant supervisor of manual training	510 00
Mrs. Rosamond K. Tarr, substitute supervisor of manual training	16 25
Jennie T. Paulson, assistant supervisor of science and manual training	137 50
Inez M. Morgan, clerk at High School	400 00

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Jennie V. Zelinsky, clerk at High School..	$42 32	
Eleanor McNutt, services in office.....	9 30	
Harry Elwell, services in laboratory.....	20 00	
Leonard R. Churchill, services in laboratory.....	15 00	
Sidney M. Tappan, services in laboratory.	7 50	
George H. Gwinn, services in laboratory..	10 00	
		$98,381 99

JANITORS' SALARIES

Henry B. Lowell, janitor, Bass River School.....	$520 00
Albert Standley, janitor, Centreville School.....	400 00
George O. Obear, janitor, Cove School....	540 00
Samuel F. Collamer, janitor, Farms School	649 12
Ezra P. Williams, substitute, Farms School	19 94
Franklin P. Hunkins, janitor, Hardie School.....	844 00
Edmund G. Dodd, head janitor, High School.....	1,000 00
George T. Perkins, janitor, High School..	716 05
William L. Dodd, janitor, High School...	685 40
Stephen A. Huntington, substitute, High School.....	5 44
Joseph Pickett, substitute, High School..	13 85
George W. Sargent, janitor, McKay School,	38 07
Fred A. Roundy, janitor, McKay School.	621 93
George W. Blake, janitor, Pleasant View School.....	500 00
John W. Hanners, janitor, Prospect School,	558 36
Raymond S. Abbott, janitor, Prospect School.....	108 88
Angelo C. Brown, janitor, Rial Side School	660 00
Charles G. Waitt, janitor, South School.	780 00

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Arthur S. Larcom, janitor, Washington School	$805 75	
George W. Sargent, substitute, Washington School	6 42	
Ida M. Larcom, janitor, Domestic Science	156 90	
		$9,630 11

RECAPITULATION

Appropriation	$114,265 04	
Transferred from	900 00	
		$113,365 04
Administration salaries	$5,319 08	
Teachers' salaries	98,381 99	
Janitors' salaries	9,630 11	
Unexpended balance	33 86	
		$113,365 04

SCHOOL DEPARTMENT—MAINTENANCE

MAINTENANCE OF BUILDINGS

Beverly Gas & Electric Co., lighting	$1,458 54
Friend Brothers, stock and labor	14 75
Walter Preston, stock and labor	2 55
William Galloupe, stock and labor	442 76
Greenlaw Electric Co., stock and labor	150 32
Pickett & Goodwin, stock and labor	1,157 70
John F. Cabeen, stock and labor	23 94
Dearborn J. Goodwin, stock and labor	100 02
Robert Robertson Co., stock and labor	109 94
S. F. Ober & Son, stock and labor	6 35
Ira A. Smith, stock and labor	3 05
Wallis & Allen, stock and labor	13 50
Eli R. Hodgkins, stock and labor	7 94
E. C. Cann, stock and labor	51 80
McQueeney Brothers, stock and labor	159 66
F. H. Crosby, stock and labor	303 68
F. A. Crosby, stock and labor	216 05

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Andrew Nichols, stock and labor	$31 50
J. V. Porter & Co., stock and labor	39 20
Geo. F. Hinkley, stock and labor	38 00
H. A. Eldridge & Co., stock and labor	285 16
C. E. Raymond, stock and labor	417 15
Frank A. Ingersoll, stock and labor	108 83
Crosby & Cann, stock and labor	253 75
J. Foster & Sons, stock and labor	360 20
Cann & Hurlburt, stock and labor	470 00
S. A. Gwinn, team and labor	63 00
Fred A. Roundy, labor	4 20
Union Vault & Safe Co., labor	2 80
George M. Sargent, labor	13 86
Harry N. Elwell, labor	2 00
Stephen A. Huntington, labor	4 06
William A. Burchstead, labor	36 15
Patrick Corkery Co., labor	57 00
Charles J. Taylor, labor	22 68
N. S. Herron, labor	3 15
F. P. Larrabee, labor	3 00
H. E. Elliott, labor	5 00
Southworth Bros., labor	9 25
J. F. Pope & Son, stock	5 50
Gove Lumber Co., stock	1 35
Whitcomb-Carter Co., supplies	206 25
Edward E. Babb & Co., supplies	76 43
J. L Hammett & Co., supplies	47 03
Joseph W. Lee & Co., supplies	396 83
Rogers & Chase, supplies	2,018 70
A. Dodge & Son (Corp.), supplies	1 70
Irving F. Gould, supplies	300 33
Samuel Ward Co., supplies	7 15
The Globe-Wernicke Co., supplies	197 75
A. C. Lunt, supplies	93 25
H. P. Woodbury & Son, supplies	60
Library Bureau, supplies	34 00
West Disinfecting Co., supplies	10 65
Frank J. Jameson, supplies	81 07
Flash Chemical Co., supplies	35 28
L. E. Knott Apparatus Co., supplies	33 65

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Beverly Co-operative Asso., supplies	$1 00	
Eagle Oil & Supply Co., supplies	3 96	
Almy, Bigelow & Washburn, supplies....	2 55	
Standard Electric Time Co., supplies....	75	
Otis N. Davis, teaming.....	30 42	
George W. Smith, teaming.....	75 25	
Hoogerzeil's Express, teaming.....	157 05	
Preston's Express, teaming.....	41 35	
E. W. Davenport, teaming.....	4 00	
Robert Wood, teaming and gravel	8 00	
Marshall & Moulton Ex. Co., expressing..	9 11	
Cudahay Packing Co., polish, etc.....	12 00	
Hurd's Laundry, laundry.....	154 73	
William H. Larcom, Jr., tuning and repairing pianos.....	9 50	
Marsten & Wells Fireworks Co., flags ...	2 70	
Benjamin Larcom & Co., soil.....	1 90	
Alden Webb, repairing clock.....	1 00	
Jordan, Marsh & Co., rug.....	27 50	
Knox & Morse Co., kerosene	24 50	
The Geo. T. Johnson Co., toilet paper...	267 06	
Mrs. F. P. Hunkins, repairing flag.....	75	
A. J. Bradstreet, dressing.....	2 00	
G. F. Gurney Co., brushes.....	80 83	
H. I. Dallman Co., floor brushes.....	3 00	
Boston Spray Co., sweeping compound .	5 58	
Heaphy Bros., oil.....	50	
Orient Spray Co., spray.....	10 25	
William C. Robinson & Sons Co., wax oil	6 50	
W. A. Wood Company, cloth.....	10 00	
Edward A. Standley, gravel.....	6 00	
Allen Shade Roller Co., shades and rollers.	154 11	
S. H. Couch Company, rep. telephone service at High School.....	14 50	
Kenney Bros. & Wolkins, blackboards...	256 05	
P. McSwiney, removing tree root.....	7 00	
Macey-Stetson-Morris Co., cabinets.....	255 00	
Oilworks, L. Sonneborn Sons, 5 gals. sem. coat.....	10 00	
		$11,656 41

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Pupils' Supplies

Beverly Gas & Electric Co., lighting	$155 00
Educational Publishing Co., books	13 25
Benjamin H. Sanborn, books	53 26
New England Publishing Co., books	2 50
D. C. Heath & Co., books	114 26
Young Folks Educational League, books	16 25
University of Chicago Press, books	4 85
The Survey, books	2 50
Charles Scribners Sons Co., books	133 91
W. B. Clarke, books	9 10
Allyn & Bacon, books	167 08
Practical Text Book Co., books	14 29
F. A. Davis Co., books	2 70
Phonograph Institute Co., books	31 00
The Bobbs-Merrill Co., books	6 73
The Gregg Publishing Co., books	5 45
Thompson Brown Co., books	11 80
W. Wellington Massell, books	11 52
D. Appleton & Company, books	896 43
American Library Co., books	13 50
Doubleday, Page & Co., books	3 24
Nelson Lewis Greene, books	90
The McMillan Co., books	4 00
The Manual Arts Press, subscription	1 50
John Wilson, subscription	5 00
J. Frank Rolfe, music	3 71
Oliver Ditson Co., music	8 09
Library Bureau, supplies	225 14
Samuel Ward Co., supplies	121 19
Macey-Stetson-Morris Co., supplies	34 80
American Book Co., supplies	518 86
Edward E. Babb & Co., supplies	4,471 84
Underwood Typewriter Co., supplies	310 50
J. L. Hammett & Co., supplies	1,019 06
Little, Brown & Co., supplies	264 89
Ginn & Co., supplies	1,408 39
Richard G. Badger, supplies	3 20
Goodyear, Marshall Pub. Co., supplies	184 12

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Neostyle Co., supplies	$54 40
Warwick & York (Corp.)	3 10
Whitcomb-Carter Co., supplies	66 63
Marston & Sturtevant, supplies	17 43
American Multigraph Sales Co., supplies	256 00
Charles E. Moss, supplies	10 50
Chandler & Barber, supplies	685 84
Irving F. Gould, supplies	170 26
J. F. Pope & Son, supplies	254 85
A. H. Fowler, supplies	3 14
Marshall Sons & Co., supplies	9 93
Chandler & Farquhar, supplies	6 86
Beverly News Co., supplies	23 25
School Science and Mathematics, supplies,	2 00
Boston Paste Co., supplies	1 35
George Welch, supplies	2 00
Teacher's College, supplies	4 00
The Schoenhof Book Co., supplies	247 75
Rogers & Chase, supplies	69 50
E. M. Steinert Sons Co., supplies	56 50
John H. Newell, supplies	67 61
W. F. Smallie, supplies	24 73
A. C. Lunt, supplies	401 65
T. D. Whitney, supplies	2 35
Chemical Publishing Co., supplies	1 25
F. A. Stokes Co., supplies	1 73
Beverly Ice Co., supplies	1 56
Harvard University, supplies	9 50
Kenney Bros. & Wolkins, supplies	99 97
E. Kinsman Banks, supplies	6 25
Norton Company, supplies	5 68
Frost, Adams Co., supplies	45 00
Milton, Bradley Co., supplies	166 51
The Davis Press, supplies	347 88
Adams, Cushing & Foster, supplies	77 13
H. F. Moore, supplies	28 47
Charles L. Puree, supplies	2 65
Western Pub. House, supplies	1 00
Atkinson, Mentzer & Co., supplies	29 55
S. M. Spencer Mfg. Co., supplies	2 00

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Edward F. Cunningham, supplies	$21 43
Burroughs Adding Machine Co., supplies	277 12
Central Scientific Co., supplies	70 91
Remington Typewriter Co., supplies	53 43
Underwood & Underwood, supplies	25 88
F. J. Barnard & Co., supplies	80 82
Brown & Sharpe Mfg. Co., supplies	80
Scott, Fousman Co., supplies	12 71
J. B. Lippincott Co., supplies	1 10
Boston Cooking School Magazine, supplies,	1 00
Joseph Dixon Crucible Co., supplies	14 45
Clarke, Eastham Co., supplies	41 39
A. S. Barnes Co., supplies	24 93
Munn & Co., supplies	7 00
Zanner & Blosser, supplies	3 60
Almy, Bigelow & Washburn, supplies	4 40
Osseau Lang, supplies	2 00
Oxford Print, supplies	23 25
The Norman H. Henley Pub. Co., supplies,	50
The School Arts Pub. Co., supplies	17 11
The National Geographic Society, supplies	1 50
Whitcomb & Barrows, supplies	1 20
The Ropes Drug Co., supplies	6 50
New England Carbon Mfg. Co., supplies	1 62
Singer Sewing Machine Co., supplies	35
The Cable Co., supplies	4 60
Thomas Nelson & Sons, supplies	86 40
Dodd, Mead Co., supplies	95 00
Essex Book Bindery Co., supplies	8 00
Fox, Futz & Co., supplies	1 14
Houghton, Mifflin & Co., supplies	456 62
Silver, Burdette & Co., supplies	724 96
Charles E. Merrill Co., supplies	93 74
Beverly Co-operative Asso., supplies	16 03
Greenlaw Electric Co., supplies	94 48
The Palmer Co., supplies	3 00
H. P. Sampson & Co., supplies	1 68
F. A. Foster & Co., supplies	5 10
L. E. Knott Apparatus Co., supplies	170 77
J. G. Blount & Co., supplies	18 25

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The Craftsman Pub. Co., supplies	$3 00
A. T. Thompson & Co., supplies	3 20
C. C. Birchard & Co., supplies	18 45
George W. Smith, teaming	25
Preston's Express, teaming	25
American Express Co., expressing	83 25
Henry M. Meek Pub. Co., directory	4 00
Crowley & Lunt, directory	2 50
Thomas F. Delaney, medicines	7 77
West Disinfecting Co., disinfectant	3 25
Jewell & Andrews, cards	60 00
Samuel R. Dexter, stock	2 04
G. P. Brown & Co., pictures	51 14
Salem Iron Foundry, castings	3 25
Buck Bros., tools	15 93
Shepard, Norwell & Co.,	17 08
Personal Record Press, chart	1 50
Cochrane Chemical Co., acid and carboy	4 72
Baker & Adamson Chemical Co., acid and carboy	6 90
Electrose Mfg. Co., insulator	3 20
The Veeder Mfg. Co., cyclometer	1 00
Ira A. Smith, stock and labor	4 34
Pickett & Goodwin, stock and labor	13 28
Arthur P. Woodbury	2 30
Felix F. Davis Duplicator Co., duplicator,	5 00
S. M. Hill & Co., ice	45
Minnie A. Johnson, mileage and expenses,	2 15
Charles C. Smith, signals	65 75
Carter Ink Co., ink	4 25
Harold C. Childs, revision of manuscript	5 00
The Bristol Co.	48 90
Leominster Novelty Co., wood	76 20
Robert O. Small, postage, mileage, etc.	18 77
W. H. Larcom, Jr., tuning piano	2 50
C. W. Lawrence, pens	3 30
The Bridgeport Wood Finishing Co., wax finish	2 70
C. F. Hovey & Co., patterns	1 05

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C. E. Doner, lessons in writing and diplomas	$70 30	
Beverly Times, advertising	16 75	
Citizen Printing Co., stock and printing	584 20	
Howard R. Lefavour, milk	11 40	
		$17,227 61

Transportation of Pupils

Stephen A. Gwinn, transporting pupils	$734 00	
Boston & Maine R.R., scholars' tickets	1,449 15	
Bay State Street Railway Co., scholars' tickets	1,011 00	
		$3,194 15

Support of Truants

Essex County Training School	$566 71	
		$566 71

Maintenance—Miscellaneous

New England Tel. & Tel. Co., telephone services	$440 53
Marshall & Moulton, Ex. Co., expressing	51 69
Hoogerzeil's Express, expressing	74 65
American Express Co., expressing	12 79
Neostyle Company, expressing	35
Ham's Beverly & Salem Ex., expressing	1 50
L. A. Dunn & Co., expressing	30
E. W. Davenport, teaming	2 30
Geo. W. Smith, teaming	10 00

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Preston's Express, teaming	$9 70
F. S. Lovett, Jr., teaming	35
Boston & Maine R.R., freight	14 33
Maguire & Herrick, horse hire	14 50
W. F. Lowe, horse hire	1 50
Union Stables, horse hire	13 00
Harper Garage Co.,	45 50
Bay State Street Railway Co., car service	23 00
Boston & Maine R.R., ride books	91 65
Elizabeth B. Fuller, mileage, etc	43 05
Edmund G. Dodd, mileage, etc	19 52
Winnie M. Williams, mileage, etc	8 40
Charles S. Brown, mileage, etc	4 74
Gertrude W. Dexter, mileage, etc	15 00
George F. Wilson, mileage, etc	7 60
Helen Sargent, mileage, etc	15 90
Emma McC. Driver, mileage, etc	10 28
Nehemiah S. Heron, mileage, etc	11 70
William T. Pepper, mileage, etc	4 02
Effie E. Colby, mileage, etc	22 30
Clara A. Smith, mileage, etc	3 28
Elizabeth Woodberry, mileage, etc	12 20
Minnie A. Johnson, mileage, etc	7 25
Jennie T. Paulson, mileage, etc	3 50
James W. Calderwood, mileage, etc	5 80
Dorothy M. Prescott, mileage, etc	6 08
Edward E. Babb & Co., supplies	13 59
Oxford Print, supplies	21 25
Essex Book Bindery, supplies	30 45
Almy, Bigelow & Washburn, supplies	15 32
Whitcomb-Carter Co., supplies	1 00
H. P. Woodbury & Son, supplies	2 10
Pearl G. Pedrick, clerical work	220 54
Olive M. Adams, Treas. Teachers Asso., lectures	100 00
Citizen Printing Co., stock and printing	45 20
Robert O. Small, incidental expenses	78 00
John Drago, interpreter	12 00
Jewell & Andrews, diplomas	25 50

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Masten & Wells Fireworks Co., flags	$44 25	
Samuel Ward Co., books	3 60	
Charles Kneeland, band May 29th	50 40	
William Galloupe, stock and labor	38 80	
C. E. Doner, lettering diplomas	31 10	
William Burchstead, labor	4 20	
Crowley & Lunt, directories	5 00	
Beverly Ice Co., ice	11 60	
Western Union Tel. Co., telegrams	1 09	
Henry F. Woodman, taking census	152 60	
R. Clipston Sturgiss, professional services	79 56	
George F. Wilson, services	27 00	
William J. Creed, services	46 00	
		$2,068 41

RECAPITULATION

Appropriation	$33,831 11	
Transferred to	900 00	
		$34,731 11
Maintenance of Buildings	$11,656 41	
Pupils' supplies	17,227 61	
Transportation of Pupils	3,194 15	
Support of Truants	566 71	
Maintenance—Miscellaneous	2,068 41	
Unexpended balance	17 82	
		$34,731 11

SCHOOLHOUSE, WARD 1

EXPENSE INCIDENT TO CONSTRUCTION

Thomas Groom & Co., supplies	$1 40	
Beverly Times, advertising	9 75	
Bidie H. Moulton, incidental expenses	48 10	
Leonard B. Moulton, incidental expenses	5 78	
		$65 03

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RECAPITULATION

Appropriation		$250 00
Expended	$65 03	
Unexpended balance	184 97	
		$250 00

SCHOOLHOUSE SITE LOAN, "1911" (WARD 1)

Appropriation		$2,000 00
Redemption of Bonds Nos. 1 and 2	$2,000 00	
		$2,000 00

SCHOOL LOAN "1902" (FARMS)

Appropriation		$3,000 00
Redemption of Note No. 10	$3,000 00	
		$3,000 00

SCHOOL LOAN, "1903"

Appropriation		$5,000 00
Redemption of Bonds Nos. 31, 32, 33, 34, 35	$5,000 00	
		$5,000 00

SCHOOL LOAN "1905" (GENERAL)

Appropriation		$1,000 00
Redemption of Note 7	$1,000 00	
		$1,000 00

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SCHOOL LOAN "1905" (HIGH)

Appropriation		$5,000 00
Redemption of Bonds Nos. 26, 27, 28, 29, 30	$5,000 00	
		$5,000 00

SCHOOL LOAN "1905" No. 2

Appropriation		$2,000 00
Redemption of Bonds Nos. 113 and 114	$2,000 00	
		$2,000 00

SCHOOL LOAN "1907"

Appropriation		$2,000 00
Redemption of Bonds Nos. 144 and 145	$2,000 00	
		$2,000 00

SCHOOL LOAN "1909"

Appropriation		$2,000 00
Redemption of Bonds, Nos. 5 and 6	$2,000 00	
		$2,000 00

SCHOOL LOAN "1910" (WASHINGTON)

Appropriation		$5,000 00
Redemption of Bonds Nos. 6, 7, 8, 9, 10	$5,000 00	
		$5,000 00

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SEWERS, BAKER, GRANT, MILL AND GAGE STS.

Appropriation	$7,985 73	
Transferred from	277 43	
		$7,708 30
M. Grady & Son, contract	$1,922 05	
Unexpended balance	5,786 25	
		$7,708 30

SEWERS, BALCH ST. AND BOSWORTH AVE.

M. Grady & Son, contract	$3,448 63	
M. Grady & Son, team, labor and stock	344 55	
George H. Tucker, inspector	144 00	
Patrick J. Daley, inspector	9 00	
John Buckley, brick	276 15	
J. J. Harrigan, cement	45 35	
George E. Teague, pipe	595 34	
Ledder & Probst, supplies	8 36	
Boston & Maine R.R.	3 14	
Puritan Iron Works	27 00	
Union Stables	5 00	
J. F. Pope & Son	15 28	
		$4,921 80

Recapitulation

Appropriation	$4,644 37	
Transferred to	277 43	
		$4,921 80
Expended	$4,921 80	
		$4,921 80

SEWER BUTMAN ST. EXTENSION

M. Grady & Son, contract	$2,325 69
M. Grady & Son, team and labor	79 85

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Patrick J. Daley, inspector	$42 00	
J. J. Harrigan, cement	14 93	
John Buckley, brick	12 60	
		$2,475 07

RECAPITULATION

Appropriation	$2,137 04	
Transferred to	350 00	
		$2,487 04
Expended	$2,475 07	
Unexpended balance	11 97	
		$2,487 04

SEWERS, COLON ST., DEARBORN AND STORY AVES.

M. Grady & Son, contract	$1,150 27	
Labor, as per pay roll	345 19	
Puritan Iron Works, covers and frames	144 00	
John Buckley, brick	42 00	
Edward A. Standley, gravel	21 00	
		$1,702 46

RECAPITULATION

Appropriation	$2,258 79	
Transferred from	350 00	
		$1,908 79
Expended	$1,702 46	
Unexpended balance	206 33	
		$1,908 79

SEWER, COX CT. AND SUMMIT AVE.

M. Grady & Son, contract	$4,090 63	
M. Grady & Son, team and labor	35 00	
Patrick J. Daley, inspector	18 00	

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John Buckley, brick	$145 95	
J. J. Harrigan, cement	267 19	
Puritan Iron Works, frames and covers	107 20	
Boston & Maine R.R., freight	81	
		$4,664 78

RECAPITULATION

Appropriation		$5,213 41
Expended	$4,664 78	
Unexpended balance	548 63	
		$5,213 41

SEWER DEPARTMENT

Labor, as per pay roll	$197 32	
		$197 32

INCIDENTALS

M. Grady & Son, labor on connections	$288 00
Edmund M. Cahill, contract, Wellman, Ames and Giddings Aves.	1,028 56
Edmund M. Cahill, contract Appleton, Giddings, Lefavour and Boyden Aves.,	1,116 32
Edmund M. Cahill, contract Cox Court and School St.	1,021 87
Edmund M. Cahill, labor, sewer connections	701 11
Edmund M. Cahill, team and labor	145 40
P. McSwiney, contract, Chapman St. and Arthur St. Ex.	979 66
P. McSwiney, labor, sewer connections	348 60
P. McSwiney, team and labor	47 00
John Buckley, brick	225 75
J. J. Harrigan, cement, etc	61 03
Geo. E. Teague, pipe	48 84

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Beverly Printing Co., requisition books..	$15 00	
Joseph W. Lee & Co., supplies.....	1 20	
F. A. E. Hamilton, supplies.....	23 52	
Whitcomb-Carter Co., supplies.....	3 80	
The Dyar Supply Co., supplies.....	36 90	
		$6,092 56

RECAPITULATION

Appropriation.....		$6,400 00
Labor, as per pay roll.....	$197 32	
Incidentals.....	6,092 56	
Unexpended balance.....	110 12	
		$6,400 00

SEWER LOAN, "1893"

Appropriation.....		$4,000 00
Redemption of Bonds Nos. 69, 70, 71, 72.....	$4,000 00	
		$4,000 00

SEWER LOAN, "1900"

Appropriation.....		$4,000 00
Redemption of Bonds Nos. 45, 46, 47, 48..	$4,000 00	
		$4,000 00

SEWER LOAN, "1903"

Appropriation.....		$4,000 00
Redemption of Bonds Nos. 29, 30, 31, 32..	$4,000 00	
		$4,000 00

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SEWER LOAN, "1906"

Appropriation		$7,000 00
Redemption of Bonds Nos. 36, 37, 38, 39 40, 41, 42	$7,000 00	
		$7,000 00

SEWER LOAN, "1907" No. 2

Appropriation		$2,000 00
Redemption of Bonds Nos. 9 and 10	$2,000 00	
		$2,000 00

SEWER LOAN, "1907" No. 3

Appropriation		$1,000 00
Redemption of Bond No. 5	$1,000 00	
		$1,000 00

SEWER LOAN, "1908" No. 6

Appropriation		$5,000 00
Redemption of Bonds Nos. 16, 17, 18, 19, 20	$5,000 00	
		$5,000 00

SEWER LOAN, "1909" No. 1

Appropriation		$3,000 00
Redemption of Bonds Nos. 7, 8, 9	$3,000 00	
		$3,000 00

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SEWER LOAN, "1909" No. 2

Appropriation		$2,000 00
Redemption of Bonds Nos. 5 and 6	$2,000 00	
		$2,000 00

SEWER LOAN, "1910" No. 1

Appropriation		$3,000 00
Redemption of Bonds Nos. 4, 5, 6	$3,000 00	
		$3,000 00

SEWER LOAN, "1910" No. 2

Appropriation		$2,000 00
Redemption of Bonds Nos. 3 and 4	$2,000 00	
		$2,000 00

SEWER LOAN, "1911" WARD 4

Appropriation		$3,000 00
Redemption of Bonds Nos. 1, 2, 3	$3,000 00	
		$3,000 00

SEWER LOAN, "1911" No. 2

Appropriation		$3,000 00
Redemption of Bonds Nos. 1, 2, 3	$3,000 00	
		$3,000 00

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SEWER LOAN, "1911" No. 3

Appropriation		$3,000 00
Redemption of Bonds Nos. 1, 2, 3	$3,000 00	
		$3,000 00

SEWER LOAN, "1911" No. 4

Appropriation		$3,000 00
Redemption of Bonds Nos. 1, 2, 3	$3,000 00	
		$3,000 00

SEWER MAINTENANCE

Labor, as per pay roll	$837 10	
		$837 10

INCIDENTALS

Thomas E. Kelley, inspector in care of station	$969 50
Pickett & Goodwin, supplies	3 15
F. A. E. Hamilton, supplies	107 57
Whitcomb-Carter Co., supplies	8 96
Joseph W. Lee & Co., supplies	4 09
Westinghouse Electric Mfg. Co., supplies	9 48
Almy, Bigelow & Washburn, supplies	25
Greenlaw Electric Co., supplies	7 80
Boston & Maine R.R., freight	1 41
American Express Co., expressing	1 95
Marshall & Moulton Ex. Co., expressing	2 10
Hoogerzeil's Express, teaming	144 00
Desmond's Stables, auto service	15 00
Union Stables, auto service	12 50
Ira A. Smith, stock and labor	9 15
H. A. Eldridge & Co., stock and labor	2 40

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H. Malcolm Torrey, stock and labor	$8 65	
Beverly Gas & Electric Co., motor power	313 46	
John C. Rauch, dinners for committee	11 60	
Harry C. Webber, rubber boots	32 00	
A. M. Byers Co., pipe, etc	24 46	
G. Frank Uhler, fittings	2 83	
Hydro Palm Soap Co., soap powder	3 15	
J. F. Pope & Son, stock	57	
Cann & Hurlburt, fence at Pumping Station	131 68	
The Dyar Supply Co., sewer rods	50 63	
J. F. Carter Co., oil clothing	5 00	
The CCC Fire Hose & Rubber Co., hose	170 00	
John Mack, plants	3 00	
Eagle Oil & Supply Co., oil	17 67	
Josiah B. Brown, disinfectant	4 50	
		$2,078 51

RECAPITULATION

Appropriation		$3,000 00
Labor, as per pay roll	$837 10	
Incidentals	2,078 51	
Unexpended balance	84 39	
		$3,000 00

SEWER, PEABODY AVE.

M. Grady & Son, contract	$1,690 95	
Patrick J. Daley, inspector	18 00	
J. J. Harrigan, cement	7 00	
Boston & Maine R.R., freight	96	
		$1,716 91

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RECAPITULATION

Appropriation		$2,687 85
Expended	$1,716 91	
Unexpended balance	970 94	
		$2,687 85

SEWERS IN SUNDRY STREETS

SECTION 1

Labor, as per pay roll	$432 92
W. B. Bryne, contract	14,483 52
Anna C. Brown, typewriting specifications	56 00
Ezra Standley, foreman	216 00
Albert S. Hall, inspector	369 00
Fred Lee, night watchman	252 00
Whitcomb-Carter Co., supplies	15
Irving F. Gould, supplies	4 50
Beverly News Co., supplies	17
John H. Newell, supplies	4 47
Boston & Maine R.R., freight	1,436 32
M. Grady & Son, teaming	102 50
Edmund M. Cahill, team and labor	729 06
John Buckley, team and labor	24 00
P. McSwiney, team and labor	140 25
Cann & Hurlburt, stock and labor	616 46
John J. Harrigan, pipe, etc	2,604 91
George E. Teague, pipe	401 67
John Buckley, brick	823 20
Union Clay Products Co., G. K. Compound	23 63
The Dyar Supply Co., manhole frames and covers	865 80
Sprague, Breed & Brown Co., cement	152 50

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Boston & Maine R.R., cinders	$15 00	
The CCC Fire Hose & Rubber Co., hose	170 00	
Boston & Maine R.R., repairs to side-track	50 00	
		$23,974 03

SECTION 2

Labor, as per pay roll	$159 75	
M. Grady & Son, contract	60,189 83	
Anna C. Brown, typewriting specifications	56 00	
Ezra Standley, foreman	195 00	
George H. Tucker, inspector	431 25	
Patrick A. Daley, inspector	423 00	
Beverly News Co., supplies	18	
Boston & Maine R.R., freight	1,228 47	
M. Grady & Son, teams and labor	2,186 28	
Cann & Hurlburt, stock and labor	517 64	
The Gove Lumber Co., stock	56	
J. F. Pope & Son, stock	29 74	
J. J. Harrigan, pipe	3,182 68	
George E. Teague, pipe, etc	1,114 32	
John Buckley, brick	1,622 25	
Union Clay Products Co., G. K. Compound	23 63	
Sprague, Breed & Brown Co., cement	342 12	
The Dyar Supply Co., manhole frames and covers	1,006 20	
The CCC Fire Hose & Rubber Co., hose	127 50	
Boston & Maine R.R., sewer Gloucester Branch	138 26	
Boston & Maine R.R., repairs to side track	50 00	
		$73,024 66

INCIDENTALS

The Globe Newspaper Co., advertising	$35 10	
Citizen Printing Co., advertising, etc.	9 75	

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Beverly Times, advertising	$23 88	
Samuel H. Stone, advertising	9 00	
Desmond's Stables, auto service	$58 00	
Union Stables, auto service	91 00	
Harper Garage Co., auto service	30 00	
Ledder & Probst, supplies	13 52	
Beverly News Co., supplies	1 60	
William A. Lee, expense of committee	25 00	
George H. Hurd, expense of committee	30 20	
Bernard J. Allen, expense	10	
J. C. Rauch, dinners, inspection	9 25	
J. F. Pope & Son, lumber	17 58	
Boston & Maine R.R., spikes	5 00	
A. C. Lunt, stove, etc.	25 80	
		$384 78

RECAPITULATION

Appropriation		$168,000 00
Expended—Section 1	$23,974 03	
Expended—Section 2	73,024 66	
Incidentals	384 78	
Unexpended balance	70,616 53	
		$168,000 00

SEWER, WARD 4

M. Grady & Son, contract	$6,950 18	
J. J. Harrigan, cement	17 51	
		$6,967 69

RECAPITULATION

Appropriation		$6,978 89
Expended	$6,967 69	
Unexpended balance	11 20	
		$6,978 89

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SEWER, WHITNEY AVE.

Appropriation		$1,487 58
M. Grady & Son, contract	$692 00	
Unexpended balance	795 58	
		$1,487 58

SHELTER AND RAILS AT WASHINGTON ST. STEPS

Cann & Hurlburt, stock and labor	$275 00	
D. J. Goodwin, painting	25 00	
		$300 00

RECAPITULATION

Appropriation		$400 00
Expended	$300 00	
Unexpended balance	100 00	
		$400 00

SOLDIERS' RELIEF

Appropriation		$7,300 00
Expended under Chapter 468, Acts 1909.	$7,041 75	
Unexpended balance	258 25	
		$7,300 00

STATE AID

Appropriation		$7,250 00
Expended under Chapter 468, Acts of 1909	$6,469 00	
Unexpended balance	781 00	
		$7,250 00

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STREET LIGHTING

Beverly Gas & Electric Co., street lighting,	$35,551 33	
Wheeler Reflector Co., street lighting	691 20	
Harper Garage Co., transportation	75	
Frederick A. Dodge, expense of Committee to New Haven	96 22	
Wheeler Reflector Co., three street lanterns	10 50	
		$36,350 00

RECAPITULATION

Appropriation	$35,000 00	
Transferred to	1,350 00	
		$36,350 00
Expended	$36,350 00	
		$36,350 00

STREET LIGHTS, INSTALLATION OF

Appropriation		$75 00
Unexpended balance	$75 00	
		$75 00

STREET LOAN, "1903"

Appropriation		$3,000 00
Redemption of Bonds 30, 31, 32	$3,000 00	
		$3,000 00

STREET LOAN, "1908"

Appropriation		$3,000 00
Redemption of Bonds 10, 11, 12	$3,000 00	
		$3,000 00

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STREET SIGNS

Labor, as per pay roll	$57 37	
The Baltimore Enamel & Novelty Co., signs	152 40	
J. F. Pope & Son, posts	11 00	
The Dyar Supply Co., supplies	10 50	
Whitcomb-Carter Co., supplies	3 98	
		$235 25

Recapitulation

Appropriation		$550 00
Expended	$235 25	
Unexpended balance	314 75	
		$550 00

SUPPRESSION OF GYPSY AND BROWN-TAIL MOTHS

Appropriation		$5,000 00
Commonwealth of Massachusetts	$5,000 00	
		$5,000 00

SURFACE DRAINAGE, BISSON ST. AND BURTON AVE.

Labor, as per pay roll	$204 07	
Puritan Iron Works, iron frames and covers	77 50	
John Buckley, brick	31 50	
George E. Teague, pipe	78 13	
		$391 20

Recapitulation

Appropriation		$392 20
Expended	$391 20	
Unexpended balance	1 00	
		$392 20

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SURFACE DRAINAGE, MECHANIC ST.

Labor, as per pay roll	$516 93	
John Buckley, brick	141 75	
George E. Teague, pipe	41 32	
		$700 00

RECAPITULATION

Appropriation		$700 00
Expended	$700 00	
		$700 00

TELEPHONES TO MEMBERS OF BOARD OF ALDERMEN

Appropriation		$169 50
New England Tel. & Tel. Co., contract	$133 95	
Unexpended balance	35 55	
		$169 50

WARNING SIGNS NEAR SCHOOLHOUSE LOTS

Appropriation		$250 00
Unexpended balance	$250 00	
		$250 00

WATER DEPARTMENT

SALARIES

James W. Blackmer, superintendent	$1,500 00
Otis L. Lunn, clerk	1,000 00
Herbert T. Conant, engineer	1,200 00
Oscar D. Young, fireman	858 00
Dudley G. Grant, fireman	858 00

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John J. Haley, fireman	$858 00	
Frank Woodbury, 2d, chairman of Board	150 00	
John J. Nugent, member of Board	50 00	
Robert Robertson, member of Board	50 00	
		$6,524 00

RECAPITULATION

Appropriation		$6,524 00
Expended	$6,524 00	
		$6,524 00

CONSTRUCTION

Labor, as per pay roll	$5,697 83	
		$5,697 83

SUPPLIES

United States Cast Iron Pipe and Foundry Co., pipe	$3,729 38	
R. D. Wood & Co., pipe	872 40	
Walworth Mfg. Co., pipe	568 25	
A. M. Byers Co., pipe	139 07	
Richards & Co., lead	805 95	
Salem Iron Foundry, boxes	165 37	
The M. D. Jones Co., drinking fountain	157 50	
Chadwick Boston Lead Co., solder	34 32	
Sprague, Breed & Brown Co., cement	5 40	
Gulf Refining Co., gasoline	6 93	
Boston & Maine R.R. Co., freight	271 70	
Solon Lovett, stock	4 20	
Crane & Co., supplies	137 76	
Chapman Valve Co., supplies	834 71	
H. Mueller Mfg. Co., supplies	379 88	
Whitcomb-Carter Co., supplies	140 32	
Builders Iron Foundry, supplies	122 85	
Glauber Brass Mfg. Co., supplies	6 55	

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George E. Gilchrist Co., supplies	$3 23	
Beverly Gas & Electric Co., supplies	2 00	
The Pratt-Cady Co., supplies	1 58	
		$8,389 35

INCIDENTALS

Union Stables, horse hire	$11 00	
Boston & Maine R.R. Co., freight	378 68	
Meriam C. Morse, team and labor	232 16	
Stephen A. Gwinn, team and labor	84 00	
Florence Driscoll, team and labor	48 00	
David C. Smith, team and labor	1 67	
Samuel R. Dexter, stock and labor	32 04	
H. Malcolm Torrey, stock and labor	17 56	
Ira A. Smith, stock and labor	70 60	
Edmund M. Cahill, stock and labor	15 00	
Frank Trask, stock and labor	2 26	
Whitcomb-Carter Co., supplies	17 50	
Beverly Gas & Electric Co., supplies	2 35	
		$912 82

RECAPITULATION

Appropriation		$15,000 00
Labor, as per pay roll	$5,697 83	
Supplies	8,389 35	
Incidentals	912 82	
		$15,000 00

RECONSTRUCTION

Labor, as per pay roll	$6,007 32	
		$6,007 32

SUPPLIES

United States Cast Iron Pipe & Foundry Co., pipe	$5,519 35	
Richards & Co., lead	473 88	

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Builders Iron Foundry, caps	$186 15	
Norwood Engineering Co., gate boxes	27 00	
Boston & Maine R.R. Co., freight	451 83	
Gulf Refining Co., oil, etc.	46 10	
J. F. Pope & Son, lumber	54 39	
Crane & Co., supplies	180 32	
Salem Iron Foundry Co., supplies	37 50	
Whitcomb-Carter Co., supplies	43 77	
W. F. Smallie, supplies	75	
Citizen Printing Co., supplies	50	
Dirigo Creamery Co., salt	82	
Beverly Gas & Electric Co., coke	3 70	
		$7,026 06

INCIDENTALS

Boston & Maine R.R. Co., freight	$530 40	
Meriam C. Morse, team and labor	269 30	
Florence Driscoll, team and labor	36 00	
A. F. Thompson, team and labor	30 00	
H. Malcolm Torrey, stock and labor	33 58	
Simpson Brothers Corp., labor, concrete walks	33 13	
Union Stables, horse and auto hire	11 00	
Bay State St. Ry., tickets	10 00	
William Standley, gravel	4 50	
J. F. Pope & Son, lumber	6 00	
Whitcomb-Carter Co., supplies	35	
		$964 26

RECAPITULATION

Appropriation	$16,000 00	
Transferred from	2,000 00	
		$14,000 00

Labor, as per pay roll	$6,007 32	
Supplies	7,026 06	
Incidentals	964 26	
Unexpended balance	2 36	
		$14,000 00

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MAINTENANCE

Labor, as per pay roll	$11,998 54	
		$11,998 54

Pumping-Station

Beverly Gas & Electric Co., lighting	$175 50	
New England Tel. & Tel. Co., telephone service and tolls	36 46	
The Blake & Knowles Steam Pump Co., pump	682 40	
Chapman Valve Mfg. Co., valve	11 06	
Locke Regulator Co., damper valve	4 00	
Crosby Steam Gauge & Valve Co., gauge	6 13	
Davis Farnham Mfg. Co., fittings and flange	20 80	
Perfect Packing Co., packing	32 52	
Whitcomb-Carter Co., supplies	36 76	
Eagle Oil & Supply Co., supplies	410 29	
Walworth Mfg. Co., supplies	57 56	
J. F. Pope & Son, lumber	4 55	
E. C. Cann, repairing wharf	65 00	
Fairbanks Co., repairing scale	30 33	
C. E. Brown, sharpening drill, etc.	4 10	
L. Perkins, labor	2 00	
J. A. McLarren, soap powder	6 70	
Charles J. Toothaker, painting boat	2 00	
Edward C. Lee, stock and labor	413 61	
Robert Robertson Co., stock and labor	103 77	
Ira A. Smith, stock and labor	7 50	
		$2,113 04

Supplies

A. Dodge & Son Corp., provender	$204 64	
J. Burkhardt, provender	112 35	
O. B. Burnham, provender	30 00	
Walworth Mfg. Co., supplies	375 33	
H. Mueller Mfg. Co., supplies	379 87	
The Chapman Valve Co., supplies	249 52	

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Whitcomb-Carter Co., supplies	$284 10
Richards & Co., supplies	146 42
The Chadwick Boston Lead Co., supplies	55 44
Builders Iron Foundry, supplies	43 39
A. C. Lunt, supplies	13 20
Beverly News Co., supplies	17 15
National Meter Co., supplies	9 70
Norwood Engineering Co., supplies	6 60
Henry R. Worthington, supplies	9 00
Greenlaw Electric Co., supplies	3 55
Hersey Mfg. Co., supplies	5 72
Matheson Novelty Shop, supplies	4 72
Joseph W. Lee & Co., supplies	4 05
F. A. E. Hamilton, supplies	4 05
H. B. McArdle, supplies	5 78
Edson Mfg. Co., supplies	9 00
Perrin, Seamans & Co., supplies	4 50
Salem Brass Foundry, supplies	3 64
Edith P. Haskell, supplies	3 00
Underwood Typewriter Co., supplies	3 00
Neostyle Co., supplies	2 00
F. R. Adams, supplies	1 10
L. K. McRae, supplies	1 75
George H. Allen, supplies	50
The Ropes Drug Co., supplies	90
H. M. Messerve & Co., supplies	85
Beverly Co-operative Asso., supplies	25
Pickett & Goodwin, supplies	17
Harold L. Bond, steel	12 65
George H. Sampson & Co., steel, etc.	12 74
Gulf Refining Co., oil	14 73
Sprague, Breed & Brown Co., cement	11 05
J. J. Harrigan, cement	3 20
Harper Garage Co., waste	33 44
United States Cast Iron Pipe & Foundry Co., pipe	95 21
A. M. Byers Co., pipe, etc.	139 08
Eagle Oil & Supply Co., packing, etc.	42 01
Plymouth Cordage Co., packing	15 68
Boston & Maine R.R. Co., freight	16 46

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Salem Iron Foundry, boxes	$153 75	
E. F. Hickey, sponges	5 00	
J. F. Pope & Son, lumber	2 88	
W. F. Smallie, oil and soap	95	
Harry C. Webber, rubber boots	16 00	
Citizen Printing Co., stock and printing	97 05	
Beverly Printing Co., printing	72 00	
Banker & Tradesman, subscription	5 00	
Sampson-Murdock Co., directory	6 00	
Henry M. Meek Publishing Co., directory,	4 00	
Crowley & Lunt, directory	2 50	
Thomas Groom & Co., books, etc.	44 25	
J. L. Fairbanks, time book	5 00	
Hooper-Lewis & Co., record book	16 00	
Frost & Adams Co., book	1 65	
Thomas F. Sheridan, binders	7 92	
Library Bureau, cards	37 75	
George H. Flint, pens	2 25	
The Carter's Ink Co., ink	2 16	
Francis Norwood, P.M., envelopes, etc.	165 44	
H. W. Billings Co., bags	12 60	
B. L. Makepeace, tracing cloth	9 90	
		$3,061 54

INCIDENTALS

Beverly Gas & Electric Co., lighting	$70 00	
New England Tel. & Tel. Co., telephone service and tolls	169 47	
Boston & Maine R.R. Co., freight	157 52	
James W. Blackmer, use of auto	522 00	
Union Stables, horse and auto hire	235 25	
The Adder Machine Co., adding machine	291 00	
The Harper Garage Co., auto hire	6 50	
Auto List Publishing Co., subscription	10 00	
Engineering News, subscription	5 00	
Beverly Times, advertising	10 50	
Marshall & Moulton Ex. Co., expressing	56 30	
American Express Co., expressing	14 51	
Ham's Beverly & Salem Ex., expressing	19 00	
Preston's Express, expressing	5 75	

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O. B. Burnham, provender	$53 07
J. Burkhardt, provender	28 70
Whitcomb-Carter Co., supplies	1 31
H. B. McArdle, supplies	6 33
Francis Norwood, P.M., supplies	10 68
The Chadwick Boston Lead Co., supplies,	48 00
Beverly News Co., supplies	18 54
National Meter Co., supplies	1 68
Matheson's Novelty Shop, supplies	1 35
Greenlaw Electric Co., supplies	1 30
F. A. E. Hamilton, supplies	7 89
Tarbox Drug Co., supplies	1 75
T. F. Delaney, supplies	2 45
Richards & Co., supplies	1 00
F. R. Adams, supplies	24 25
Edmund Giles, boots, etc.	6 15
Harry C. Webber, boots, etc.	4 50
Dirigo Creamery Co., salt	2 25
H. M. Messerve & Co., dater	3 25
S. M. Hill & Co., ice	18 12
John H. Foster, wood	5 25
J. B. Dow & Co., wood	13 56
John Girdler, coal and wood	9 00
Robert E. Whipple, laundry	4 80
Thomas Groom & Co., books, etc.	7 50
Boston & Maine R.R., ride books	39 00
Hiram Lowell & Son, skiff and oars	21 00
H. C. Tobey, celluloid in auto curtain	1 25
Hartford Steam Boiler Inspection & Ins. Co., insurance	67 50
Galloupe & Trask, insurance	63 00
Henry Bushek, inspecting boilers	5 00
Estate of Edith Woodbury, rebate on bill, 1912	2 75
Walter S. Flint, rebate on bill, 1912	11 52
Peter E. Clark, oak stock	2 00
Charles W. Haddock, M.D., professional services	6 00
A. H. Lyman, dinners	3 05
Frank Trask, labor	42 74

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Elatus H. Brown, labor	$38 44	
John Dwyer & Co., labor	80	
Thomas Connolly, labor	7 50	
Sigrid H. Stensrud, office assistant	41 66	
Albert H. Richardson, labor on plans	19 13	
Citizen Printing Co., stock and printing	17 95	
Samuel R. Dexter, stock and labor	15 89	
Ira A. Smith, stock and labor	15 85	
L. K. McRea, stock and labor	4 40	
C. T. Young, stock and labor	14 52	
W. B. Crowell, stock and labor	12 05	
H. A. Eldridge, stock and labor	5 00	
Connolly Bros., stock and labor	5 03	
Robert Robertson Co., stock and labor	2 00	
C. W. Porter, stock and labor	11 00	
Friend Brothers, shoeing	52 50	
David C. Smith, team and labor	80 76	
Meriam C. Morse, team and labor	28 17	
Daniel Linehan, teaming	3 25	
Lorenzo Colson, repairing	1 00	
William B. Crowell, repairs on wagon	53 75	
Alden Webb, repairing gauge cock	1 50	
Haskell & Phelan, repairing building	16 63	
Boston & Maine R.R., repairs to side track,	40 00	
A. J. Cunningham, repairing harness	9 70	
Joseph F. Kilham, repairing bicycle	5 50	
Hersey Mfg. Co., repairing meters	1 97	
Union Meter Co., repairing meters	4 15	
Henry R. Worthington, repairing meters.	4 80	
National Meter Co., repairs and labor	57 87	
J. J. Barry, washing hose	1 13	
Edward G. Josephs, washing hose	1 13	
Charles A. Kent, washing hose	1 13	
Samuel Cunningham, incidental expenses.	5 35	
Robert E. Brown, incidental expenses	1 00	
Elatus H. Brown, mileage	7 00	
James W. Blackmer, expenses	33 45	
Frank Woodbury, 2d, expenses	43 98	
Robert Robertson, expenses	39 65	
		$2,826 88

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RECAPITULATION.

Appropriation	$20,500 00	
Transferred from	2,500 00	
	$18,000 00	
Transferred to	2,000 00	
		$20,000 00
Labor, as per pay roll	$11,998 54	
Pumping Station	2,113 04	
Supplies	3,061 54	
Incidentals	2,826 88	
		$20,000 00

NEW METERS

Labor, as per pay roll	$724 99	
		$724 99

INCIDENTALS

Henry R. Worthington, meters	$2,760 50	
National Meter Co., meters	567 80	
Hersey Mfg. Co., meters	495 00	
Salem Iron Foundry, meters	166 50	
J. F. Pope & Son, lumber	85 25	
Walworth Mfg. Co., fittings	63 34	
The Kelley & Jones Co., bushings	20 46	
The Chapman Valve Mfg. Co., supplies	48 00	
F. A. E. Hamilton, supplies	2 30	
Pittsburg Meter Co., supplies	7 40	
Pickett & Goodwin, supplies	42	
Union Stables, auto and horse hire	30 50	
Meriam C. Morse, team and labor	9 00	
Crosby & Cann, labor	8 25	
		$4,264 72

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RECAPITULATION

Appropriation		$5,000 00
Labor, as per pay roll	$724 99	
Incidentals	4,264 72	
Unexpended balance	10 29	
		$5,000 00

WATER LOAN, 1903

Appropriation		$2,000 00
Redemption of Bonds 15 and 16	$2,000 00	
		$2,000 00

WATER LOAN, 1905

Appropriation		$2,000 00
Redemption of Bonds 13 and 14	$2,000 00	
		$2,000 00

WATER LOAN, 1905, No. 2

Appropriation		$2,000 00
Redemption of Bonds 61 and 62	$2,000 00	
		$2,000 00

WATER LOAN, 1910, No. 1

Appropriation		$2,000 00
Redemption of Bonds 3 and 4	$2,000 00	
		$2,000 00

WATER LOAN SINKING FUND

Appropriation		$3,000 00
Expended	$3,000 00	
		$3,000 00

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RECAPITULATION

DEPARTMENT	Balance from 1911	Appropriated	Transfer from	Transfer to	Total Appropriations	Total Expenditures	Unexpended Balance

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY SOLICITOR

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

APRIL 28, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 392, 1913

REPORT OF CITY SOLICITOR

BEVERLY, MASS., January 1, 1913.

To the Honorable Mayor and Board of Aldermen:

GENTLEMEN:—I submit herewith the Annual Report of the Law Department for the year ending December 31, 1912.

The City Solicitor has appeared in behalf of the city in the following matters:

1. Francis C. Welch *et als. vs.* City of Beverly, Essex Superior Court.
   Petition for abatement of taxes assessed against the Shaw estate for the year 1910.
   Judgment for the plaintiff for the amount of taxes paid under protest.

2. Anthony Camuso *vs.* City of Beverly.
   Essex Superior Court.
   Entered first Monday of October, 1908.
   Bill in equity to reach funds retained by city on account of contract with M. Grady & Son.
   Pending.

3. Melville Woodbury *vs.* City of Beverly.
   Essex Superior Court.
   Petition to assess damages by a jury for land taken for sewer purposes along the beach.
   Pending.

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4. Eliza H. Pierce *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

5. Carey W. Chamberlin *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

6. George W. Swan *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

7. Horace W. Woodberry *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

8. Mary J. Iverson *et als. vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

9. Allen H. Bennett *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

10. Benjamin D. Webber *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

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11. Ellen S. C. Haddock *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

12. Jasper R. Pope *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

13. Henry S. Pickering and Rebecca W. Walker, *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

14. Eva J. Lunt *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

15. Arthur J. Gadbois *vs.* City of Beverly.
Essex Superior Court.
Returnable first Monday, of April 1910.
An action of tort for alleged damages by reason of flowage of water in and upon plaintiff's premises on Elliott Street.
Demurrer filed by city.
Pending.

16. Harriet M. Williams *vs.* City of Beverly.
Essex Superior Court.
Returnable January 2, 1911.
An action of tort for alleged damages by reason of falling on Cabot Street owing to an alleged defect in the highway.
Ad damnum, $10,000.
Pending.

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17. Charles H. Williams *vs.* City of Beverly.
Essex Superior Court.
An action of tort by husband for loss of wife's services, etc.
Ad damnum $10,000.
Pending.

18. Ulysses G. Haskell *vs.* City of Beverly.
Essex Superior Court.
Petition to assess damages by a jury for land taken for sewer purposes along the beach.
Pending.

19. Addie M. Hall *vs.* City of Beverly.
Essex Superior Court.
Suit for damages by reason of plaintiff's alleged injury through falling into trench on Burton Ave.
Returnable first Monday of July, 1912.
Pending.

20. Fanny H. Morse *vs.* City of Beverly.
Land Court.
Petitioned for registration of title to land at Pride's Crossing.
Returnable first Monday of September, 1911.
Trial at Land Court, lasting the greater part of eight days, during which petitioner abandoned registration of beach parcel No. 3, which was the principal issue from the viewpoint of the city.
Finding for the Petitioner on remaining parcels December, 1912.

II

The City Solicitor has appeared for the Commonwealth in prosecution of various criminal cases in the First District Court of Essex held at Salem, involving the usual offences.

Appearances have been entered and answers filed in a number of cases in which the city was summoned as Trustee.

The City Solicitor has also represented and appeared for the city at various hearings in Boston, before different committees

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of the Legislature, and before the Railroad Commissioners and other State bodies, on a number of matters in which the city was interested, including hearings before the Water Supply Committee, and the Special Commission on water matters, conferences and hearings with the Railroad Commissioners on the matter of better service by the Bay State St. Ry. Co. in Beverly; hearings before the Committee on Cities, and Committee on Rules, relative to the change in jurisdiction over the Ward 4 playground, now the Athletic Field, and in other matters not here catalogued.

In connection with the above, legislative bills for the taking over of Wenham Lake by Beverly, and for the discontinuance of the Ward 4 playground, were drawn by the City Solicitor.

III

The usual number of consultations and conferences with State officers and boards and persons outside the City Government were held during 1912. The volume of work in this connection was about the same as in the year 1911. The City Solicitor attended the various meetings of the Board of Aldermen with few exceptions, rendering oral opinions on a number of occasions and upon various subjects. It has been felt by the writer, that in this way much delay was saved in the conduct of city business and that the majority of questions arising on such occasions are susceptible of practically spontaneous answer. The more serious questions were in all cases reserved for a later written or other opinion.

IV

Two hundred and eighty-five official letters were written and mailed by the City Solicitor on various matters connected with legal business during 1912.

The following written opinions were issued:

1. Written opinion to Board of Health *re* Garbage Contract.

2. Written opinion to Public Library Commissioners *re* necessity for new bids where changes made in ornamentation of buildings.

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3. Written opinion Mayor Dodge *re* liability from injury to horses of private proprietor on Boston & Maine Reservation.

4. Board of Health *re* Comfort Station on City Hall lot.

5. Alderman Lindsay *re* license fees.

6. Alderman Woodberry *re* certain license matters.

7. City Treasurer *re* North Beverly Tool House Cemetery Department.

8. Chief of Police *re* Transportation of liquor into a No-License city.

9. Cemetery Commissioners *re* Hildreth lot endowment.

10. Superintendent of Cemeteries *re* authority of Commissioners to hire labor; *re* expense of drainage and caring for surface water in cemetery.

11. Alderman Loring *re* Mabel Burns' claim.

12. Board of Health *re* authority in quarantine cases.

13. Alderman Torrey *re* control of Superintendent of highway over laborers in Street Department; over laborers in Sewer Department.

14. Alderman Woodberry *re* junk collectors.

15. Alderman Lane *re* eight-hour law and school janitors.

16. Board of Assessors *re* power to employ assistant assessors.

17. Commissioners, Ward 1 schoolhouse as to jurisdiction.

18. City Clerk, re-issuance of license for transportation of liquor.

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19. Superintendent of Schools *re* liability of Beverly for instructions given certain persons in Manchester schools.

20. Park Commissioners *re* Mark Woodbury property.

21. Public Library Commissioners *re* necessity of advertising for bids for furnishings.

22. Alderman Lane *re* days off for reserve officers.

23. Mayor Dodge as to workingmen's compensation insurance for Beverly.

24. Alderman Hurd, law of shade trees.

25. Board of Health, authority from journeyman plumbers.

26. Alderman McPherson *re* City's school physician.

27. Alderman Torrey, application of chapter 447, acts 1912.

28. Water Board as to legality of fifteen-day discount regulation.

29. Alderman Hurd *re* Bay State Street Ry. Co., for double tracking.

30. Superintendent of Schools *re* access to school enrolment cards by public generally.

The Law Department prepared forty-three orders including loan orders, resolves, votes, etc., for the Board of Aldermen in 1912. Twelve ordinances were also drawn by the Department for the Committee on Ordinances and others as follows:

1. Ordinance Police Department revised.

2. Ordinance City Engineering Department revised.

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3. Ordinance relative to the construction of private ways.

4. Ordinance relative to the alignment and grade of streets.

5. Ordinance relative to hackney carriages and fares, revised.

6. Ordinance relative to heavy traffic in streets.

7. Ordinance relative to loitering in streets.

8. Ordinance relative to stopping teams in streets.

9. Ordinance relative to moving buildings in streets.

10. Ordinance relative to placing and maintaining signs, etc.

11. Ordinance relative to streets.

12. Ordinance relative to City Electrician's department.

The City Solicitor has attended a number of meetings of the Committee on Claims, at which various witnesses and testimony were heard relative to a number of claims.

Appearances have been entered and answers drawn and filed in any cases brought against the city in the Superior Court. Several difficult titles have been searched by the department in connection with the transfer to the city of property for park and school purposes, including those of the Mark Woodbury property and Maguire & Herrick property.

V

The decision of the Land Court in the Morse case, granting registration of title to the petitioner on two inland parcels at Pride's Crossing, is the first Court decision for some years involving, even to a minor degree, the question of our shore rights. This petition, when originally brought in 1911, was much more formidable than it later turned out to be when the trial began. The original petition called for registration of title to certain parcels,

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including one on the beach near to West Beach, which on the theory of the city as to the course of the old Colonial Way, laid out as we maintain in 1644 and 1646, bordered on that old way at that point. Any attempt to register title to this beach parcel, after a few days' trial of the case, was abandoned by the petitioner.

The other parcels in the petition, which lay between the beach and Hale Street near Pride's Crossing Depot, were entirely separate from this issue in point of location, and involved on our theory possible public rights in a private avenue constructed as late as 1874. It was never claimed by the city that this 1874 avenue was ever publicly constructed or owned, but that since 1874, prescriptive rights had accrued in the public by virtue of user during the statutory period of twenty years. This 1874 avenue and these inland parcels did not at any point touch upon or involve the claim of the city as to the actual course and location of the Colonial Highway and other old roads, which have always been the central issue in the determination of what actually constitutes the shore rights of the public in Beverly. The Land Court found for the petitioner and against the public, on the sole question of public rights in the 1874 avenue. The basis of the investigation of the shore rights by the Law Department of the city has been several times alluded to in certain of my former reports to the City Council. The area of the city to be covered by the investigation extends from the beach at the foot of Dane Street to the Manchester Line. The Law Department, throughout the investigation, has been assisted by Sidney Perley, Esq., of Salem, and at the outset, in conjunction with Mr. Perley's efforts, the examination was directed at that portion of the region beginning at Dane Street. This was because of the erection of certain fences or barriers across what was alleged to be part of the old way, by certain summer residents in and around Hospital Point. When this work was well begun, it became necessary to divert all attention to the Pride's Crossing region in order to meet the issues in the Morse case above referred to. The result is, that the Department is in possession of records, evidence, etc., which, as shown by preliminary report of Mr. Perley, cover, practically complete, the eastern end of the Beverly shore from Manchester line to Mingo's Beach, except in three places, to wit; at West Street, a short space at the western end of West Beach, and between Plum Cove and Mingo's Beach. The work remaining to be done

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at these points in the way of ascertaining or perfecting the exact locations is comparatively of slight importance. So much for the eastern end of the region investigated.

Mr. Perley further states that beginning his investigation originally at Dane Street Beach, he worked easterly and had gone back pretty thoroughly as far as Hospital Point, "When the bringing of the Morse petition in the Land Court caused you to request me to leave the section where I was working and devote my time to the West Beach section." The data and records found by Mr. Perley in these investigations are in his possession pending final report, with the exception of a large number of attested copies of deeds and other official records which were used by the city in the Morse trial prior to the abandonment of the beach parcel, which are now with the city authorities.

It is thus shown that the investigation of this difficult and obscure matter is well along toward completion, and that in order for the city to gain the full results of the expenditure already made and to enable the Law Department and its investigators to present final detailed report, which will serve as foundation for all subsequent procedure deemed wise, the matter should be further pressed at this time and finally completed. Mr. Perley, in his preliminary report, which, together with the plan of the Pride's Crossing section made by him, is on file with the city authorities, says, "I expected when I had finished my investigations, to make a report with so much detail and fullness as to maps and records, that it could be printed and be reliable and ready for use, if in the future any question arose as to the rights of the public between Hale Street and the ocean, and render unnecessary any examination of the early records. The work is so far advanced that it seems that it ought to be completed, so that the public might derive the fullest benefit from the money already expended. I think that two thirds of the work has been done."

I recommend that the balance of the investigation, including the three minor locations at the Manchester end mentioned by Mr. Perley, and the stretch of beach and upland between Mingo's Beach and the point near Hospital Point already reached by the investigation, be at once completed.

Besides the records and written evidence which is so necessary, it is of course important and equally necessary to secure adequate oral testimony as to the course and use of the old way, or ways,

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by persons who are equipped with knowledge of a personal character, or through authentic traditions of those now dead, are able to so testify. Many of our oldest inhabitants are rapidly passing from the scene of action, and it would be well to perpetuate all this testimony under the provisions of law. Certain of these witnesses were called by the city at the Morse trial.

One serious aspect of this matter concerns what is the proper policy for the city to adopt towards land owners and other property interests along the shore, in the event of its becoming certain that sufficient evidence is at hand to show the course of the old highway to be as claimed by the public. In that event there can be no question that, in certain locations, this way would be shown to cross extremely valuable shore land at certain points. If the original alleged rights of the public use of such way were now to be re-established with all that this involves, it would unquestionably affect real estate values, especially on that part of the shore where isolation and privacy are factors in determining valuation. It is for the Board of Aldermen to determine, when the time comes, what shall be the attitude of the city in that event. A number of alternative courses of action suggest themselves from the point of view of the city, should this highway become established by judicial decree, into which it would not be proper at this time to go.

One other large matter calling for the undivided attention of the Law Department in 1912 was the water question. At the date of this report, no final decision has been rendered by the Special Commission appointed by the Governor to consider the needs of certain Essex communities for additional water supply, The 1912 water history, however, may be briefly alluded to in connection with the 1911 reports of the City Solicitor on that subject. In accordance with the action of the Beverly City Government, late in 1911, a bill was drawn by the City Solicitor and filed in the 1912 legislature, providing for the taking over of Salem's rights in Wenham Lake by Beverly. Salem also filed her special bill providing for the continued joint use of that supply by the two cities, and other communities filed various bills in this connection. The entire matter was heard by the Committee on Water Supplies of the 1912 legislature through a long series of hearings, at which hearings Beverly insisted throughout upon a bill substantially in accordance with the one filed, while Salem

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took the attitude already outlined, opposing Beverly's position and asking for right to enter the Ipswich River for both communities as additional supply. The Water Supply Committee of the Legislature, being unable to reach any definite conclusion in the matter owing to the diversity and irreconcilability of the interests appearing, finally voted to refer all bills to the next General Court. A resolve was then submitted by the interested communities, with the approval of the Committee, providing for a Special Commission to be appointed by the Governor to hear the whole problem, and report in January, 1913. This Commission gave a series of hearings extending from July to January, and evidence and arguments were heard and submitted by all parties concerned. At the date of this report the Commission is expected to render its finding within two weeks. Throughout the hearings, Beverly was represented by the City Solicitor, together with George W. Anderson, Esq., as senior counsel, by engineers George A. Kimball, Robert S. Weston and Superintendent of the Water Works, J. W. Blackmer. It is felt strongly that the attitude taken by Beverly is a just one, and should be granted by the Legislature, and that such a decision properly worked out will not mean any hardship to Salem or any other community in the vicinity, whatever the Commission's decision may be.

The policy of the Law Department to date has been, to carry the fight for Wenham Lake for Beverly through to a finish, undaunted by any temporary setbacks, and in this we believe the vast majority opinion in the city is in accord. The expense of the fight to date, although substantial, has been extremely moderate, compared with the ordinary expense of such legislative contests, and much ground has been gained.

On a question of this character involving a possible expenditure by Beverly, ultimately, of around one half million dollars before our water problem shall be settled, it is poor economy for tax-payers to object to legitimate expenditures for the defence of our rights and the advancement of our interests on this vitally important problem. It has been the experience of municipalities generally, that the expenditure of moderate amounts wisely and properly disbursed, on a matter of this magnitude, frequently is the means of saving far vaster sums in ultimate results.

The vexed question of better service from the Bay State Street Ry. Co. has been gone into thoroughly during this year.

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A solution which seemed to the Street Railway Committee and Law Department favorable to the city was reached, but too late in the year to permit of its going into effect.

Many other matters of more or less importance have been handled during the year 1912, but are not enumerated here, being largely routine, although calling for much time and thought.

Respectfully submitted,

ALFRED E. LUNT,

City Solicitor.

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EIGHTEENTH ANNUAL REPORT

OF THE

CITY CLERK

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

APRIL 28, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 393, 1913

REPORT OF CITY CLERK

OFFICE OF THE CITY CLERK,

APRIL 28, 1913.

To the Honorable Mayor and Board of Aldermen:

GENTLEMEN:—The undersigned has the honor of presenting herewith the eighteenth annual report of the receipts and disbursements of the office of the City Clerk, for the municipal year ending December 31, 1912, and also the vital statistics of the city for the same period.

Respectfully submitted,

LUTHER S. HERRICK,

City Clerk.

CASH STATEMENT

To cash received for certificates of intention of marriage, recording mortgages, licenses, etc	$1,354	50
By cash paid City Treasurer, as per vouchers	$1,354	50
To cash received from Dog Licenses, less fees	$878	40
By cash paid County Treasurer, as per vouchers	$878	40
To cash received for Hunters' Certificates	$305	00
By cash paid Commissioners on Fisheries and Game, as per vouchers	$305	00

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VITAL STATISTICS OF THE CITY OF BEVERLY FOR THE YEAR 1912

BIRTHS

In the year 1912 the total number of births was 518, including still-births. Of this number 261 were males and 257 were females, with seven sets of twins.

The births by months were as follows: January, 47; February, 44; March, 30; April, 57; May, 40; June, 51; July, 41; August, 49; September, 37; October, 38; November, 37; December, 47.

The largest number in any one month was 57, in April; the smallest number in any one month was 30, in March.

NATIVITY

Children born of American parents	223
Children born of foreign parents	194
American father and foreign mother	50
Foreign father and American mother	33
Father unknown	18

MARRIAGES

Number of marriages recorded 222

GROOMS		BRIDES	
First marriage	195	First marriage	201
Second marriage	26	Second marriage	19
Third marriage	1	Third marriage	2
Youngest groom, 17 years.		Youngest bride, 16 years.	
Oldest groom, 64 years.		Oldest bride, 57 years.	

NATIVITY

Both American,	131	American groom and foreign bride,	23
Both foreign,	49	Foreign groom and American bride,	19

MARRIAGES BY MONTHS

January	9	May	12	September	26
February	20	June	36	October	20
March	6	July	12	November	23
April	19	August	22	December	17

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Solemnized by the following clergymen:

Carey W. Chamberlin, 26; Walter J. Mitchell, 19; Judson V. Clancy, 15; John F. Curran, 14; A. F. Reimer, 13; Eugene J. V. Huiginn, 12; Benjamin R. Bulkeley, 8; Clarence S. Pond, Henry F. Smith, and James D. Tillinghast, 4 each; Edward A. Chase, Albert E. George, and Nicholas R. Walsh, 3 each; Francis J. Curran and N. H. Washburn, 2 each; James H. Downey, and C. A. Imhoff, 1 each.

Out of town clergymen and Justices of the Peace, 88.

DEATHS

The total number of deaths was 269, including 17 still-births. Males, 141; females, 128.

The deaths by months were as follows:

January	17	May	22	September	25
February	21	June	15	October	28
March	27	July	25	November	24
April	29	August	18	December	18

Age at Death

Under 10 years	40
From 10 to 20 years	7
From 20 to 30 years	24
From 30 to 40 years	19
From 40 to 50 years	23
From 50 to 60 years	28
From 60 to 70 years	48
From 70 to 80 years	35
Over 80	28

Oldest person deceased, 91 years, 10 months. Born in Beverly, 91; United States, 108; Foreign birth, 69; places of birth unknown, 1.

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EIGHTEENTH ANNUAL REPORT

OF THE

SUPERINTENDENT

OF

HIGHWAYS AND SEWERS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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IN BOARD OF ALDERMEN

MAY 5, 1913.

Received, read by its title and referred to the Standing Committee on Accounts and Printing, for printing in the Municipal Document.

LUTHER S. HERRICK, *Clerk.*

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CITY DOCUMENT, No. 426, 1913

REPORT OF SUPERINTENDENT OF HIGHWAYS AND SEWERS

OFFICE OF SUPT. OF HIGHWAYS AND SEWERS,

BEVERLY, MASS., January 1, 1913.

To His Honor, the Mayor, and the Board of Aldermen:

GENTLEMEN:—As required by Section 4 of Chapter 17 of the City Ordinances, I submit herewith my sixth annual report, and the eighteenth annual report covering the operations of the Highway Department, for the year ending December 31, 1912.

In accordance with the ordinances I submit the following:

1. A detailed account of work done.
2. An itemized account of expenditures, appropriations, transfers, etc.
3. An inventory showing amount of property in my charge, together with valuation of same.

A large amount of work has been done during the year, as will be shown in the account of work which follows.

GENERAL REPAIRS

The following work was done under this appropriation:

Care of ice and snow, sanding sidewalks, etc., throughout city during winter months.

Housing of sand for use on sidewalks during winter months.

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Housing of snow plows, water carts, etc., at different seasons of year, and care of stable yard.

Building snow fences on Bridge, Dodge, and Herrick Sts.

Cleaning gutters throughout entire city. On account of mileage of our streets a gang of men were kept at work on gutters practically all the time from spring until late in the fall.

Cleaning of catch basins throughout entire city. On account of the large increase in the number of basins, on account of the extension of the surface drainage system, this work, too, keeps a number of men busy during a large portion of the months of the year.

Early morning cleaning and flushing of Cabot St. during year.

Care of Cabot St. smooth paving, and care of crosswalks, etc., throughout city.

Cleaning and repairing paved gutters, Kernwood Ave.

Repairing of wall on Water St., near the Foster dock and building of 120 ft. of guard fence at the same place.

Hauling stone from Burton Ave. sewer to stone crusher.

Filling holes and washouts in streets.

Filling of old well, corner of Cabot and Union Sts.

Repairing of fence on Rantoul St. near Taylor property.

Repairing of fence on Cabot St. at Tan Yard Hollow.

Rebuilding of fence, Cabot St., North Beverly.

Repairs on steps and landing at foot of Porter St.

Hauling ashes from Frost Box Co. to Bridge St.

Recovering of old cistern at Odell Park, Rantoul St.

Putting up street signs, (before special appropriation was made).

Hauling of cobble paving from various gravel pits to yard at city stable.

Screening gravel for use in repairing streets.

Care of grass plot on Beckford St. and care of ends of streets along water front.

Mowing grass along sides of streets throughout city.

Raking leaves in streets in fall.

Repairs on Giles Ave., after construction of sewer.

Prospect St., corner of Munroe St., setting stone corner, paving gutter and building of crosswalk across Munroe St.

Repairs on crosswalks in various parts of the city.

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Oiling of streets with Gulf Refining Co's. light road oil as follows:

Standley St., entire length.
Foster St., entire length.
Groce St., entire length.
East Lothrop St., entire length.
Beckford St., entire length.
Spring St., entire length.
Sohier Road, between Colon and Herrick Sts.
Cross St., between Hale and Lothrop Sts.
River St., between Bridge and Federal Sts.
Boyles St., between Cole and Cross Sts.
Colon St., between Cabot and Heather Sts.
Livingston Ave. between Bridge and Harris Sts.
Winthrop Ave., entire length.
Cole St., entire length.

Oiling of streets with the Alden Speares Sons Company's "Tasscoil," as follows:

Beckford St., entire length.
Edwards St., entire length.

Oiling of streets with Standard Oil Company's 30 per cent. Road Oil, as follows:

Conant St., entire length.
Dodge St., from Enon St. to Wenham line.
Cabot St., from Dodge St. to Conant St.

Gravel repairs on streets as follows:

Essex St., in various places between Montserrat Station and Wenham line.
Hull St., between Essex St. and Wenham line.
Prince St., from Hale St. to end of street at beach.
Cole St., between Essex and Foster Sts.
Brown St., between Abbott and Washington Sts.
Cabot St., in various places between Dodge St. and Wenham line.
West Dane St., between Mulberry and Rantoul Sts., (stone and gravel).
Federal St., between Rantoul and Cabot Sts.

Cabot St., in various places, repairs on macadam (stone and gravel.)

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Macadamizing of portion of Cabot St., from end of smooth paving to Pond St.

Park St., in front of Boston and Maine R.R. station, regular macadam construction with use of Bermudez Road Asphalt as a binder.

Care of road rollers, etc.

Large amount of miscellaneous work too small to itemize.

SPECIFIC REPAIRS

The following work was performed under this appropriation:

Filling holes and washouts in macadam in various places.

Macadam repairs on Broadway, between Cabot and Park Sts.

Macadam repairs on Abbott St., between Cabot and Lovett Sts.

Macadam repairs on Bridge St., entire length.

Macadam repairs on Hart St., Beverly Farms.

Macadam repairs on High St., Beverly Farms.

Macadam repairs on Everett St., Beverly Farms.

Macadam repairs on Haskell St., Beverly Farms.

Filling holes with asphalt on Hart, Bridge, Hale, Stone, Lothrop, Rantoul Sts., and Broadway.

Unloading cars of asphalt.

Unloading cars of cement.

Beverly Farms, in front of Police Station, building of guard fence around square.

Gravel repairs on Gage St.

Gravel repairs on Burton Ave.

Gravel repairs on Brown St.

Gravel repairs on Beckford St.

Gravel repairs on Western Ave.

Gravel repairs on Lyman St.

Gravel repairs on Bennett St.

Gravel repairs on Whitney Ave.

Gravel repairs on Livingston Ave.

Gravel repairs on Peabody Ave.

Beckford St., corner of Cabot St., rebuilding end of street with macadam on account of widening of Beckford St.

Thorndike St., macadamized between Brown and Lovett Sts.

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Ocean St., macadamized entire length, treated with Gulf Refining Company's Asphalt Binder.

Federal St., street macadamized under Boston & Maine R.R. bridge.

River St., between Bridge and Pleasant Sts., macadam construction, treated with Bermudez Asphalt.

Corner of Cabot and Winter Sts., grading and rebuilding of street on account of widening.

Construction of new crosswalks as follows:

Across Elliott St., at Mechanic St., block paving and concrete.

Across Roundy St., at Chase St., block paving and concrete.

Across Pierce Ave., at Charnock St., block paving and concrete.

Across Chase St., at Roundy St., 2 walks, block paving and concrete.

Across Cabot St., at Colon St., block paving and concrete.

Relaying of crosswalks as follows:

Across Cabot St., at Pickett St.

Across Rantoul St., at Elliott St.

Across Elliott St. at Rantoul St., 2 walks.

Construction of paved gutters, as follows:

Park St., between Riverside and Creek St., 822 ft. long, 3 ft. wide.

Riverside St., between Rantoul and Park Sts., 180 ft. long, 3 ft. wide.

Mulberry St., between Arthur and West Dane Sts., 185 ft. long, 3 ft. wide.

Peabody Ave., between Essex St., and Sargent Ave., 360 ft. long, 4 ft. wide.

Construction of asphalt gutter, Whitney Ave., 700 ft. long, 3 ft. wide.

Relaying paved gutters in West Dane, Judson, Hale and Ober Sts., total of 1,024 ft. in length, 3 ft. wide.

Construction of paved gutter and square at corner of Lothrop and Stone Sts., 60 square yards.

Relaying of various small pieces of paved gutters in different parts of city, caused by connections for water, sewer and gas.

Woodbury St., laying of 158 ft. of 8 in. pipe.

Repairs at corner of Cabot and Balch Sts., on account of construction of sewer.

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Rolling sewer trenches in various parts of the city.

Rolling trenches in various streets on account of pipes of water department, and laying of conduits by telephone and electric light companies.

Hauling surplus material from trenches of Beverly Gas and Electric Co.

Raking loose rocks in various streets about city.

Oiling of streets at Beverly Farms, as follows: Hart St., Haskell St., High St., Hale St., and Everett St., Greenwood Ave. and Webster Ave. (Gulf Refining Company's Road Oil).

Oiled with Barbour Asphalt Company's Bermudez Liquid Asphalt:

Bridge St., entire length.

Hale St., Lothrop St. to Chapman's Corner.

Oiled with Gulf Refining Company's Oil:

Balch St., from Cabot St. to old Balch St.

Kernwood Ave., entire length.

BRIDGES

Both the School St. Bridge and the Bass River Bridge are in fair condition. The usual work of renewing old and worn planks was carried out on both bridges. One of the abutments of the Bass River Bridge was rebuilt. With a possible repainting and necessary repairs on the bridges, I can see no reason for any extraordinary outlay during the coming year.

Essex Bridge and the new Kernwood Bridge are under the care of the County, the City of Beverly paying one-third of the cost of their maintenance, so I have nothing to report regarding their condition.

SURFACE DRAINAGE

The following surface drainage work was done during the year:

Standley St., near house of J. E. Wentworth, cleaning and relaying of culvert across street.

Rear of plant of Beverly Gas & Electric Company, clearing pipe of obstruction at mouth.

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Cabot St., at Twohig's store, plug in pipe.

Lake Shore Ave., cleaning brook.

Pleasant St., corner of Rantoul St., removing plug in pipe.

Corner of Conant and Dodge Sts., removal of plug and broken pipe; (this work included the relaying of 42 ft. of 10 in. pipe).

Cabot St., at Grand Army Hall, recovering box drain.

Elliott St., at U.S.M.Co's., plant, repairing of concrete wall.

Porter St., near Ward 1 playground, renewal of drain, 72 ft. of 12 in. pipe.

At foot of Water St., on beach, repairs on box drain.

At foot of Dane St., on beach, repairs on box drain.

Rantoul St., near Plummer Drug Store, relocation of box drain.

Location of new box drains at following places.

Conant Street, near North Beverly Cemetery, two.

Bridge Street, near Eastern Ave., two.

Cleaning of catch basins, the larger portion of this work was charged to General Repairs.

Care and maintenance of power and hand pumps used in drainage work.

Unloading pipe from cars.

Unloading bricks from cars.

Bridge St., lengthening of culvert near Eastern Ave., 8 ft. of 24 in. pipe, and construction of one basin.

Corning St. and Cross St., at corner of Hale St., laying of 142 ft. of 15 in. pipe, 342 ft. of 10 in. pipe, 14 ft. of 8 in. pipe, and construction of six catch basins and two man-holes.

Park St., corner of Federal St., construction of two basins.

Corner of Herrick St. and Cabot St. construction of one basin.

Rantoul St., corner of Elliott St., construction of one basin, and laying of 10 ft. of 10 in. pipe.

Cabot St., corner of Roundy St., construction of one basin, and laying of 32 ft. of 10 in. pipe.

Cabot St., at Tan Yard Hollow, construction of two basins and laying of 226 ft. of 12 in. pipe.

Beckford St., at Elliott St., construction of one basin and laying of 38 ft. of 10 in. pipe.

Bridge St., corner of River St., construction of three basins and laying of 380 ft. of 12 in. pipe and 84 ft. of 10 in. pipe.

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Elliott St., at Main line crossing, construction of one basin, and laying of 46 ft. of 10 in. pipe.

Railroad Ave., corner of Rantoul St., construction of two basins, and laying of 65 ft. of 10 in. pipe.

Rantoul St., near Moore's paint shop, construction of one man-hole.

Western Ave., laying of 120 ft. of 12 in. pipe, 48 ft. of 10 in. pipe, and construction of one basin.

Rear of City Stables, laying of 100 ft. of 36 in. pipe and construction of one man-hole.

Gage St., construction of one basin.

Greenwood Ave., laying of 222 ft. of 20 in. pipe, 354 ft. of 18 in. pipe, 32 ft. of 15 in. pipe, 52 ft. of 10 in. pipe, 34 ft. of 8 in. pipe, and construction of five catch basins.

Cleaning drain at Curtis estate, Hale St., rebuilding of culvert and laying of 30 ft. of 15 in. pipe, 20 ft. of 8 in. pipe, and construction of two catch basins.

Haskell St., laying of 10 ft. of 12 in. pipe, and construction of one catch basin.

STREET WATERING

The same methods for laying the dust on our streets have been employed during the past year as in 1911. The streets included in the street watering order have for the most part been oiled. The exceptions to this have been Depot Sq., Broadway, Abbott St., a portion of Rantoul St., and the smooth paving on Cabot St.

Streets were treated as follows:

The Alden Speares Sons Company's "Tasscoil."

Pleasant St., entire length.
Lovett St., entire length.
Monument Sq.
Thorndike St., from Cabot St. to Lovett St.
Washington St., from Cabot St. to Lothrop St.
Central St., from Cabot St. to Lothrop St.
Front St., entire length.
Ocean St., from Lovett St. to Lothrop St.
Dane St., from Hale St. to Lothrop St.
Knowlton St., from Winter St. to Dane St.

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Charnock St., from Essex St. to Butman St.
Butman St., from Dane St. to Charnock St.
Chestnut St., entire length.
Summer St., entire length.
Judson St., entire length.
Mulberry St., entire length.
Wallis St., entire length.
Railroad Ave., entire length.
Fayette St., entire length.
School St., entire length.
West Dane St., from Rantoul St. to Cabot St.

The above named streets were treated with an application of the Standard Oil Company's Non-Asphaltic Oil later in the season.

Gulf Refining Company's Road Oil.

Elliott St., from Cabot St. to McKay St.
Federal St., from Mulberry St. to River St.
Cabot St., from Pond St. to State Highway.
Cabot St., from Union St. to Essex Bridge.
Bow St., entire length.
Pickett St., from Cabot St. to No. 5 Pickett St.
Odell Ave., from Pickett St. to Whitney Ave.
McKay St., entire length.
Pond St., entire length.
Dane St., from Cabot St. to Hale St.
Lennox St., entire length.
Hale St., from Cabot St. to Lothrop St.
Lothrop St., from Stone St. to Hale St.
Stone St., entire length.
Park St., from Broadway to Elliott St.
Rantoul St., from Cabot St. to Pleasant St.

The amount of streets covered in 1912 is the same as 1911, and for quantities I would refer to my report for the year 1911.

GRAVEL SIDEWALKS

As in previous years much good work has been accomplished by this appropriation, but there is of course much work that could be done to advantage. Our sidewalks are far from being

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perfect, but when fault is to be found with their condition, there should be taken into consideration the large amount of mileage of our city and the fact that so few of our streets, comparatively speaking, have any permanent artificial sidewalks. Considering the amount of money appropriated by the City Governments of past years I consider the sidewalks in fair condition.

The following work has been done:

a. GRAVEL

	Length Feet	Width Feet
Elliott St., between Green and Cressy Sts.	544	8
Essex St., between Corning and Charnock Sts.	780	7
Bridge St., between River St. and Eastern Ave.	660	8
Rantoul St., between Pleasant and Cabot Sts.	210	9
Bisson St., between Burton Ave. and Hale St.	496	8
Bay St., between Lothrop and Lovett Sts.	146	8
Whitney Ave., between Odell and Boyden Aves.	520	8
Mill St., between Beckford St. and B.&M.R.R.	725	7
Gage St., between Mill and Beckford Sts.	935	7
West Dane St., between Mulberry and Rantoul Sts.	380	8
Ocean St., between Hale and Lovett Sts.	560	8
Western Ave., entire length	725	8
Crescent Ave., between Winthrop and Kernwood Aves.	400	8
Winthrop Ave., between Bridge St. and Crescent Ave.	580	8
Raymond Ave., entire length	860	7
Arlington Ave., entire length	1,040	7
River St., between Federal St. and Webber Ave.	2,042	8
Enon St., between Dodge St. and Wenham line	2,200	7
Lovett St., between May and Bartlett Sts.	150	8

b. CINDERS

	Length Feet	Width Feet
Bridge St., between Ashton St. and schoolhouse	310	9
Essex St., between Corning and Pearl Sts.	120	8
Wellman St., between School St. and Webber Ave.	429	8
School St., between Porter and River Sts.	240	8
Elliott St., between Beckford and Green Sts.	634	8
Rantoul St., between School and Cabot Sts.	180	9

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c. Treated with Stone Dust

	Length Feet	Width Feet
Hale St., between Cabot and Lothrop Sts.	3,560	8
Essex St., between Cabot and Jackson Sts.	2,200	8
Cabot St., between Federal St., and R.R. crossing	3,500	8
Chestnut St., entire length	1,400	7
Summer St., entire length	1,200	8
Lennox St., entire length	920	8
Myrtle St., entire length	1,200	7
Odell Ave., between Pickett St. and Whitney Ave	1,350	8
Pickett St., between Cabot St. and Odell Ave.	140	8
Winter St., between Cabot and Essex Sts.	460	8
Lothrop St., between Corning and Cross Sts.	150	8
Bartlett St., between Lovett and Front Sts.	740	8
Central St., between Lovett and Cabot Sts.	350	8
Dane St., between Knowlton and Hale Sts.	1,450	8
Harrison Ave., between Pierce Ave. and Prospect St.	100	7
Lovett St., between Hale and Ocean Sts.	840	8

The following miscellaneous work was performed:

Repairs in various parts of the following streets: Bridge, Conant, Chestnut, Hale, Park, Agate, Jasper, Porter, Wellman, and School Sts., Woodland, Linden and Webber Aves. This was simply repair work, and was not large enough for measurement.

Elliott St., blasting for and grading sidewalk in front of Foster property.

Hauling stone from County Way to Bridge St. for wall.

Hauling dust to Ward Six.

Bay View Ave., rebuilding of 426 ft. of wall and renewal of guard fence, 313 ft. being new fence.

Stone corner-stones at the following locations:

Pickett St. and Odell Ave., 1 corner.

Lovett and May Sts., 1 corner.

Lovett and Ives Sts., 2 corners.

Enon St., and Lakeside Ave., 2 corners.

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ARTIFICIAL SIDEWALKS

In accordance with a general demand for more and better artificial sidewalks, a larger appropriation was given for this work than in previous years. For several years I have recommended the construction of continuous stretches of sidewalk, rather than a small piece here and there. I am glad to state that during this year such a policy was carried out to a large extent, notably on Simon St., Lyman St., Bow St., and Thorndike St. The other work done on new construction was also along the line of filling in places between stretches of sidewalk, or the extension of existing walks. Much work was done under this appropriation, the work for the greater part being done by contract.

ARTIFICIAL SIDEWALKS

The following work was performed:

Repairs on brick and concrete sidewalks at following places:
Railroad Ave., at Highland Hotel and Dreamland Theatre.
Rantoul St., at Elliott Chambers.
Cabot St., at Whitcomb-Carter Co.'s store.
Cabot St., at Odd Fellows Building.
Rantoul St., at new Post Office Building.
Broadway, at Whitcomb-Carter Co's. store.
Repairs on granolithic sidewalk at Clark property, Broadway.
Setting up derrick in rear of City Stables.
Chamfering of driveways in various places.
Unloading bricks from cars in rear of City Stables.
Resetting of curb at following places:
Broadway, at W. A. Perry's house.
Thorndike St., at Bank Building.
Union St., near Cabot St.
Resetting of curb and repaving of gutter at Wales property, on account of removal of tree.
Setting of curb at following places:
Cabot and Winter Sts.
Elliott St., between Rantoul St. and Railroad Crossing.
Whitney Ave.
Swan and Cabot Sts. (one No. 2 corner).

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Hauling old curbstone from Thorndike St. to Elliott St.

Hauling old curbstone from new Post Office Building to Elliott St.

Hauling old curbstone from Hale St. to Whitney Ave.

Repairs on catch basin, corner Cabot and Pickett Sts., on account of change in grade.

Hauling of surplus material from J. C. Fowler.

Relaying brick sidewalks in various parts of city (contract).

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Following is a list and cost of new work, as ordered by the Board of Aldermen:

	Curb, Lin. Ft.	Brick Walk, Sq. Yds.	Drives, Sq. Yds.	Granolithic, Sq. Yds.	Sod, Lin. Ft.	Total Cost	Amount Assessed
Atlantic Ave.	137.0	104.0	.....	.....	.....	$241 72	$120 87
Bow St.	850.0	594.7	14.06	.....	.....	1,432 45	716 24
Bartlett St.	50.0	36.7	.....	.....	.....	85 05	42 53
Cabot St.	423.2	309.8	20.93	.....	.....	758 50	379 26
Highland Ave.	45.5	.....	.....	35.0	.....	98 46	60 61
Lovett St.	61.5	38.6	.....	.....	.....	95 78	47 89
Lyman St.	748.3	532.9	.....	.....	.....	1,250 77	625 45
Myrtle St.	62.4	44.6	.....	.....	.....	104 51	52 26
Pierce Ave.	93.7	68.7	6.60	.....	.....	171 82	85 91
School St.	129.7	96.0	.....	.....	.....	221 70	110 85
Simon St.	1,502.0	1,053.2	.....	.....	.....	2,488 26	1,244 20
Thorndike St.	256.0	167.0	9.10	407.3	432.8	1,208 32	719 68
Whitney Ave.	74.2	56.7	.....	.....	.....	123 56	61 78
	4,433.5	3,102.9	50.69	442.3	432.8	$8,280 90	$4,267 53

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SALARY OF SUPERINTENDENT

As in previous years this appropriation was entirely expended in payment of the salary of the Superintendent of this Department.

SIDEWALKS—ARTIFICIAL—WARD 6

This appropriation was made with the intention of starting a system of permanent artificial sidewalks at Beverly Farms, and provided for the work to be done under the same conditions as in the city proper, with the consequent assessment of property owners for work thus done. The people of Ward 6 felt, however, that they would rather have a gravel sidewalk with a granite curbstone, instead of an artificial walk of brick or granolithic. Therefore, later in the year, this amount of $2,000 was transferred to the appropriation "Sidewalks, Gravel, Ward 6."

SIDEWALKS—GRAVEL—WARD 6

As stated in the preceding, this amount was appropriated for the purpose of furnishing the residents of Ward Six with better sidewalks. The entire appropriation was expended. The work included the laying of approximately two thousand linear feet of granite curb, excavating for sidewalk and the construction of a cinder sidewalk. The work done in 1912 was principally on Hale St., and included the work on the sidewalk from Haskell St. to Pickett Court. I would recommend an appropriation for this work in 1913, as I consider the work now commenced should be extended.

STONE CRUSHER

Both of the stone crushers belonging to the city are in good condition. The equipment at the Cedar St. crusher includes a No. 5, Special Champion Crusher of 13 x 26 in. receiving capacity. This crusher has only been used about two seasons and is capable of turning out a large amount of stone daily. At the Farms crusher there is a Champion Crusher, 10 x 24 in. receiving capacity,

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which was installed in 1904. This is in good condition at the present time. In fact, so far as I can see, neither crusher will need more than the usual repairs necessary for their up-keep during the coming year.

Considerable work has been done improving the bins and shed which houses the belting at the Cedar St. plant. This work is now completed and will prove of much benefit in protecting the belts, etc., from the weather.

Approximately eleven thousand tons of stone were crushed at both plants during the year.

TEAMS

The City Stables are in good condition at the present time. There is still a lack of suitable storage sheds for the equipment. With the increase of the past few years, it is apparent that something must be considered in the future in the way of extension of the shed room. One new pair of horses was purchased, and a pair of the older horses sold. This leaves the number at the stables the same as last year, viz., eleven. One pressure oil wagon was added to the equipment. In the future, one-horse tip-carts must be purchased, as the ones now in use are old and in bad shape. Another light express wagon would also prove useful, as the older of the two now in use is in very poor condition.

SEWERS

As in 1911, the work of construction of sewers was done by contract, and under the direction of the Committee on Streets. This Department had nothing to do with the construction of those sewers ordered by the Board of Aldermen. The work done under the heads of "Sewer Department" and "Sewer Maintenance" was a part of the Highway Department. The Sewer Department appropriation included expenditures made for house connections principally. Two or three small pieces of sewer extension were made under this head, but the greater part of the money was spent as before stated.

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The appropriation "Sewer Maintenance" included the work of caring for sewers already completed. This work consisted of flushing of sewers, care and maintenance of sewage, pumping station, location and removal of plugs in sewer connections at numerous places, incidental expenses for tools, hose for flushing, etc., and the salary of one inspector for the entire year.

In connection with the construction of sewers in Colon St., Dearborn and Story Aves., some work was done by employees of this Department after the work was completed in re-grading the street and repairs on sidewalks. Some work was also done in way of repairs on sidewalks, etc., incidental to the construction of a sewer in Elliott St., near McKay St. This work was done to protect the public travel, and payment was made from the appropriation for Construction of Sundry Sewers, Section I. This work was done by order of the Committee on Streets and Sewers.

CITY FORESTER AND GYPSY MOTH WORK

The work of caring for the trees of the city has gone on in the same general way as in previous years. The work was done under the following heads:

Extermination of Gypsy and Brown Tail Moths.
Suppression of Gypsy and Brown Tail Moths.
City Forester, Maintenance.
City Forester, Planting and Replanting Trees.
City Forester, Suppression of Leopard Moth.
Two special appropriations, viz:
    Removal of tree, Whitney Ave.
    Removal of trees, Cabot St.

The moth work has been carried on along the same lines of previous years. The usual appropriation of $5,000 was made to be spent in connection with money contributed by the surrounding towns, the North Shore summer residents and the Commonwealth of Massachusetts. This money, as has been stated in previous reports, is paid direct to the State Treasurer, and is spent under the direction of the State Forester.

The work upon the street trees and on private property in the residential portion of the city has been carried on with good results. These results are shown in the decreased numbers of

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nests which can be seen at the present time. The work of past years has been done with effect, and these pests are not to be found in as plentiful numbers as in other years. The street trees were thoroughly cleaned and a large amount of work done on private property, and the amount spent in cleaning has been assessed to the owners of the property. Approximately $2,000 has been assessed, not including a large amount of work done for the various other city departments in cleaning their property. I would again urge the co-operation of the property owners in helping to entirely exterminate these pests, if possible.

The work of the City Forester's department, as in previous years, has been hampered from lack of appropriation. The amount appropriated, $500, is not enough to do effective work on the trees of the city, which need a great amount of care. Only the absolutely necessary work has been done. This includes removal of dead limbs, cutting of several dangerous trees, a limited amount of trimming, etc.

The appropriation for the work of planting new trees was again renewed this year. This work is very important, and the results will begin to show in a few years. The tree guards purchased late in 1911, and referred to in my report of last year have been placed in position. One hundred forty-four trees were purchased and set out, the greater majority in new locations, but a few were needed in places where trees set in previous years had died. This work should be continued in 1913.

In the summer months the Leopard Moth was found to be infesting many of our trees, especially in the vicinity of Washington and Thorndike Sts. A request was made for this Department to do something in this line of work. As no money was available in the regular appropriation it became necessary that a special appropriation be made. This was entirely expended, and the results attained warranted the expenditure. It will possibly be necessary for an appropriation for this work in 1913.

With the fact of the smallness of the appropriation for the regular work of removing dangerous trees in mind, the Board of Aldermen made two special appropriations for the removal of various trees, which were either dead, in dangerous condition, or else interfered with the installation of the new lighting system on Cabot St. The appropriation for Whitney Ave. was for the removal of a tree on that street which was in a dangerous condition.

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The one for Cabot St. was for the removal of certain trees on this street. Some, as I have before stated, were in a positively dangerous condition, others were removed because of the laying of smooth paving on Cabot St. in the lower portion of the city, and some interfered with the location of the new lights.

PURCHASE OF A STEAM ROAD ROLLER

The condition of one of the steam road rollers being such that it was doubtful if it would stand the strain of a heavy year's work, and not being considered worth extensive repairing, it was decided to purchase a new one. Early in the year an appropriation of $3,800 was made for this purpose, with the result that a new 15-ton steam road roller was purchased from the Buffalo Steam Roller Company. This makes at the present time three rollers owned by the city, all being of the Buffalo Steam Roller Company's make. The new roller has given satisfaction and proven a good investment.

COLLECTION OF ASHES

This work has been done by contract, under the direction of the Committee on Streets and this Department. So far as can be seen the work has been done in a satisfactory manner. Complaints are bound to be made, but such complaints have been given careful consideration both by this Department and the contractors, and I think in every case all difficulties have been settled in a way to the perfect satisfaction of all concerned. F. I. Lamasney has taken care of Section II of the city, and M. Grady & Son, until April 1, 1912, and M. C. Morse, for the rest of the year, have taken care of Section I.

SURFACE DRAINAGE IN BISSON ST. AND BURTON AVE.

The greater part of this work was done in 1911 by contract. That done in 1912 consisted in the extension of the work. The drain is now complete, and the appropriation expended.

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This work consisted of building three catch basins at the corner of Butman and Hancock Sts., two catch basins at the corner of Bisson and Butman Sts., construction of one man-hole on Bisson St., and the laying of 208 ft. of 12 in. pipe and 90 ft. of 10 in. pipe in Butman St.

SURFACE DRAINAGE IN MECHANIC ST.

This work was done by special appropriation, and is now complete. It provides for the surface drainage of Mechanic St., and the work done was as follows: Construction of two man-holes, one on West Dane St. and one on Mechanic St.; four catch basins, two on West Dane St. and two on Mechanic St.; the laying of 504 ft. of 12 in. pipe and 68 ft. of 10 in. pipe.

RECONSTRUCTION OF A WALL, HERRICK ST.

This special appropriation was for the purpose of rebuilding the retaining wall at the corner of Cabot and Herrick Sts. The old wall, 150 ft. in length, was rebuilt and an extension of 50 ft. constructed. This wall should be extended at some future time.

RECONSTRUCTION OF HERRICK ST.

This work is now practically completed, and in addition to that which was done by contract included the following:

Sodding of bank at Hospital grounds.
Construction of two catch basins.
Laying of 181 ft. of 10 in. pipe.
Laying of 24 ft. of 18 in. pipe.

CONSTRUCTION OF LIVINGSTON AVE.

The appropriation for this work, made in 1911, was wholly inadequate to do complete work on this street. At the present time it is in passable condition. The work consisted of cutting

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the hill and using the material thus obtained for covering the stone hauled from the sewer trenches and used for filling. Some money was also expended from the Specific Repairs appropriation, by order of the Street Committee, to make this street passable.

MACADAMIZING SIMON ST.

This street was macadamized with 4 in. of macadam, and treated with the Gulf Refining Company's Asphaltoil. The work is complete in every particular. 2,700 sq. yds. of street were constructed.

RECONSTRUCTION OF A PORTION OF CABOT ST.

This appropriation was made for the purpose of reconstructing Cabot St. from the existing smooth paving to Essex Bridge. The appropriation was made during the late summer, but on account of various hindrances work was not commenced until late in the year. On account of the lateness in starting, the work was not completed, but with the coming of warmer weather the entire work will be finished. The work to date consists of a system of surface drainage from Essex Bridge to Edwards St. This includes the following: 114 ft. of 24 in. pipe; 167 ft. of 20 in. pipe; 282 ft. of 18 in. pipe; 541 ft. of 15 in. pipe; 422 ft. of 12 in. pipe, 346 ft. of 10 in. pipe and 68 ft. of 8 in. pipe and construction of 10 man-holes and 22 catch basins. Other work includes the excavation of 1,500 sq. yds. of sub-grade of from 9 to 10 in. in depth, the removal of old paving, cleaning up of surplus material after setting of curb by contractor, and the breaking, crushing and hauling of stone for foundation. This work was done at the stone crusher on Cedar St. Other work included the laying of 1,522.9 sq. yds. of Hassam Block Paving, the setting of 1,294.8 linear ft. of granite curb, and the resetting of 384.8 linear ft. of old curb. It is planned to have the Bay State Street Railway Company relocate their tracks in Cabot St., placing the tracks in the middle of the street and double track from the existing double track to the Bridge. When completed the work will be a great improvement over old conditions, and make a continuous stretch of smooth paving from the Essex Bridge to Federal St.

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REPAIRS ON SIDEWALKS

This special appropriation was made for the purpose of renewing sidewalks after the laying of various conduits on the streets of the city during the summer of 1912. The work of replacing the amount of sidewalk actually removed on account of the laying of the conduits was paid for by the company who was responsible for the removal. It was felt, however, that on the main street of the city the old concrete walks had become out of date, so it was decided to replace them with brick or granolithic, whichever happened to be the material of which the adjoining sidewalk was composed. This appropriation was spent in connection with the companies upon whom fell this work of replacing sidewalks destroyed by them. The work included the laying of 1,600 sq. yds. of brick, 540 sq. yds. of granolithic walks, and has given good satisfaction.

CONSTRUCTION OF SIDEWALK, HALE ST.

On petition of Mr. A. W. Rogers, a sidewalk was constructed in front of his property on Hale St. As a granolithic walk was desired an agreement was made whereby Mr. Rogers had the work done at his own expense, and was later reimbursed by the city for an amount equal to one-half the cost of a brick sidewalk. This amounted to $350; and a special appropriation for this amount was made, and payment made to Mr. Rogers. The work included the construction of a granolithic curb and sidewalk in front of the entire estate, extending from near Ocean St. to near the Common, with a grass plot between the sidewalk and the curb. The work is completed and a decided improvment to that portion of Hale St., not to say anything about the convenience to the large number of people who use the sidewalk daily.

STREET SIGNS

Feeling that new street signs were needed in many parts of the city the Board of Aldermen made a special appropriation of $550 for this work. On account of the lateness of the season and the time required to have these signs made but little progress

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was made on the work. Two hundred and fifty-four signs have been ordered and received; some of the posts have been set, and a number of painted signs to be placed at the more important corners have been ordered. With the beginning of the new year this work will be continued as far as the amount of the appropriation will allow.

WARNING SIGNS AT SCHOOL HOUSES AND NUMBERING CERTAIN STREETS

These two special appropriations were made so late in the year, being signed by the Mayor on December 31, that any work was impossible. The first named provides for the placing of signs near the school houses of the city, warning automobile drivers, etc., of their proximity to the school houses. The other was made for the purpose of numbering certain streets of the city, not already numbered, same to be done under the direction of the Committee on Streets. The work called for under each appropriation will be attended to at the earliest possible opportunity.

FINANCIAL

Following, as required by the ordinances, is a detailed statement of the appropriations and expenditures of this Department for the year ending December 31, 1912.

APPROPRIATIONS AND EXPENDITURES

Balances from 1911, re-appropriated						$3,628 31
Jan. 1, 1912, Appropriation orders (Budget)						97,300 00
Feb. 17, 1912,	"	"	(appr'd by Mayor)			1,700 00
Mar. 27, 1912,	"	"	"	"	"	3,800 00
May 21, 1912,	"	"	"	"	"	2,500 00
June 7, 1912,	"	"	"	"	"	1,800 00
June 13, 1912,	"	"	"	"	"	1,500 00
July 11, 1912,	"	"	"	"	"	35,000 00
July 23, 1912,	"	"	"	"	"	250 00
July 30, 1912,	"	"	"	"	"	1,200 00

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Aug. 15, 1912, Street Railway Tax	$4,006 44
Aug. 15, 1912, Appropriation orders, (appr'd by Mayor)	600 00
Aug. 28, 1912, " " " " "	4,050 00
Sept. 4, 1912, " " " " "	700 00
Sept. 25, 1912, " " " " "	1,578 80
Oct. 3, 1912, " " " " "	500 00
Oct. 10, 1912, " " " " "	25 00
Nov. 1, 1912, Excise Tax	2,204 04
Nov. 18, 1912, Appropriation orders (appr'd by Mayor)	150 00
Nov. 19, 1912, " " " " "	1,800 00
Dec. 2, 1912, " " " " "	300 00
Dec. 3, 1912, " " " " "	2,000 00
Dec. 13, 1912, " " " " "	300 00
Dec. 26, 1912, " " " " "	1,150 00
Dec. 31, 1912, " " " " "	1,210 00
Total appropriations	$169,052 59
Total expenditures	143,729 02
December 31, 1912, Balances	$25,323 57

CITY FORESTER—MAINTENANCE

INCIDENTALS

F. A. E. Hamilton, tools	$7 28	
Southworth Brothers, trees	3 00	
Edward A. Standley, soil	12 40	
Whitcomb-Carter Co., tools	3 59	
		$26 27
Labor, as per pay rolls		$472 44
Total expenditures		$498 71
January 1, 1912, appropriation	$500 00	
Total expenditures	498 71	
December 31, 1912, balance	$1 29	

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CITY FORESTER—PLANTING AND REPLANTING TREES

INCIDENTALS

Southworth Bros., trees	$214 15	
		$214 15
Labor, as per pay rolls		83 52
Total expenditures		$297 67
January 1, 1912, appropriation	$300 00	
Total expenditures	297 67	
December 31, 1912, balance	$2 33	

COLLECTION OF ASHES

INCIDENTALS

Beverly Times, advertising	$3 50	
Augustus L. Churchill, delivering circulars,	5 60	
A. S. Cooper, delivering circulars	4 00	
Citizen Printing Co., printing	16 25	
Henry E. Dodge, delivering circulars	4 06	
M. Grady & Son, contract	781 00	
F. I. Lamasney, contract	450 00	
Fred Lee, delivering circulars	11 20	
John C. McCarthy, delivering circulars	5 60	
Roland McPherson, delivering circulars	6 50	
M. C. Morse, contract	1,071 40	
		$2,359 11
Labor, as per pay rolls		178 18
Total expenditures		$2,537 29

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January 1, 1912, appropriation	$2,500 00
February 21, 1912, appropriation	700 00
Total appropriation	$3,200 00
Total expenditures	2,537 29
December 31, 1912, balance	$662 71

CONSTRUCTION OF LIVINGSTON AVE.

Incidentals

Edward A. Standley, gravel	$30 30	
		$30 30
Labor, as per pay rolls		446 24
Total expenditures		$476 54
Balance from 1911	$500 00	
Total expenditures	476 54	
December 31, 1912, balance	$23 46	

SUPPRESSION OF GYPSY AND BROWN-TAIL MOTHS

Incidentals

State Treasurer, Commonwealth of Massachusetts, cash	$5,000 00
Total expenditure	$5,000 00
January 1, 1912, appropriation	5,000 00
Total expenditure	$5,000 00

EXTERMINATION OF GYPSY AND BROWN-TAIL MOTHS

Incidentals

John S. Baker, repairs on machinery	$115 41
Barrett Mfg. Co., creosote	17 72
Beverly News Co., stationery	1 00
Boston & Maine R.R. freight,	9 90

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J. F. Carter Co., oil clothing	$24 04	
Citizen Printing Co., printing, envelopes, etc	112 50	
Desmond's Stables, team hire	55 00	
W. M. Farwell, agent, hose	100 60	
Fitzhenry-Guptill Co., supplies	31 20	
F. A. E. Hamilton, tools	14 23	
M. F. Harkins, gasolene	68 89	
Harper's Garage Co., batteries	3 00	
E. F. Hickey, stock and labor	7 70	
Merrimac Chemical Co., arsenate of lead	702 00	
Pickett & Goodwin, stock and labor	4 49	
E. C. Sawyer, stock and labor	6 35	
Sexton Can Co., creosote cans	1 20	
Harry F. Standley, labor on assessments, etc	64 37	
Traveller's Insurance Co., liability insurance	78 75	
Alden Webb, repairs on glasses	70	
Whitcomb-Carter Co., tools	12 57	
		$1,431 62
Labor as per pay rolls		5,350 87
Total expenditures		$6,782 49
January 1, 1912, appropriation	$5,000 00	
June 4, 1912, appropriation	1,800 00	
Total appropriation	$6,800 00	
Total expenditures	6,782 49	
December 31, 1912, balance	$17 51	

HIGHWAY—GENERAL REPAIRS

Incidentals

Ames Implement and Seed Co., waste barrels	$25 25
American Express Co., express charges	6 21
Otis M. Baker, stock and labor	3 50

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Bank and Office Equipment Co., office cabinet	$127 00
John S. Baker, stock and labor	15 10
Barber Asphalt Co., asphalt	676 35
Beverly News Co., stationery	7 97
Beverly City Directory, directory	2 50
Boston & Maine R.R., freight charges	79 14
H. L. Bond Co., tools	56 33
Borne, Scrymser Co., oil	18 00
Josiah B. Brown, cash paid	13 00
James S. Brown, gravel	36 30
Buffalo Steam Roller Co., supplies	32 82
Henry Bushek, inspection of boilers	10 00
Cornelius Callahan Co., stock and labor	2 25
CCC Fire Hose Co., hose	255 00
Citizen Printing Co., printing	43 95
J. N. Crowe, ladders	22 70
H. I. Dallman Co., brooms	16 00
Dodge-Haley Co., stock	42 97
A. Dodge & Son, Corp., supplies	8 50
Andrew Dodge, gravel	8 40
Dirigo Creamery Co., salt	12 75
Dunn's Express, express charges	1 40
Dyar-Supply Co., tools, etc	132 60
John Eisenmann & Co., refilling sweeper brooms	72 00
William E. Elliott, cash paid	25
Eagle Oil and Supply Co., oil	167 69
W. M. Farwell, agent, hose	118 79
John H. Foster, gravel	151 60
John A. Gaffey, teams, labor and gravel	221 91
Zina Goodell, stock and labor	26 29
George H. Goudey, painting signs	46 60
M. Grady & Son, gravel	21 00
Thomas Groom Co., printing	8 75
Wm. H. Griffin, rubber boots	4 00
Gulf Refining Co., road oil	1,008 42
Hammond Typewriter Co., supplies	6 55
M. F. Harkins, kerosene	105 55
F. A. E. Hamilton, tools, etc	213 46

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J. J. Harrigan, cement	$33 50	
J. B. Hill & Son, repairing clock	75	
H. M. & R. E. Hodgkins, paint	45 05	
J. W. Lee & Co., stock	10 73	
Lee & Cressy, stock and labor	5 00	
D. Linehan & Son, sand, etc.	14 29	
A. C. Lunt, stock and labor	2 24	
B. L. Makepeace, steel tape	8 74	
Marshall & Moulton Express Co., express charges	33 89	
H. M. Meek Publishing Co., directory	4 00	
New England Tel. & Tel. Co., telephones	72 20	
Pickett & Goodwin, stock and labor	5 90	
J. F. Pope & Son, lumber	95 61	
W. S. Railsback, Treas., one grader	115 00	
Sexton Can Co., oil cans	18 90	
H. E. Sears, M.D., medical attendance	9 00	
W. G. Stickney, M.D., medical attendance	5 00	
Edward A. Standley, gravel	96 30	
William Standley, gravel	208 20	
George E. Teague, pipe	16 75	
Waldo Bros., stock	17 40	
Walworth Mfg. Co., supplies	24 74	
R. E. Whipple, towels	75	
G. F. Whitney Co., supplies	6 60	
Whitcomb-Carter Co., tools	81 67	
		$4,761 06
Labor, as per pay rolls		26,444 79
Total expenditures		$31,205 85
January 1, 1912, appropriation	$24,000 00	
August 15, 1912, Street Ry. Tax	4,006 44	
September 25, 1912, appropriation	1,028 80	
November 1, 1912, excise tax	2,204 04	
December 31, 1912, appropriation	1,125 00	
Total appropriation	$32,364 28	
Total expenditures	31,205 85	
December 31, 1912, balance	$1,158 43	

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HIGHWAY—SPECIFIC REPAIRS

INCIDENTALS

Barber Asphalt Co., asphalt	$2,039 31	
Boston & Maine R.R., freight charges	37 80	
Beverly Times, advertising	4 00	
Samuel Cole, gravel	116 70	
Connolly Bros., team, gravel, labor, etc	359 30	
Crowley & Lunt, numbering streets	50 00	
Desmond's Stables, automobile hire	15 00	
Frederick A. Dodge, expense of committee	6 00	
Andrew Dodge, gravel	5 50	
Dyar Supply Co., tools	268 00	
John H. Foster, gravel	61 70	
John A. Gaffey, teams, gravel, labor, etc	756 59	
M. Grady & Son, gravel	72 00	
Dudley N. Griffin, supplies	2 00	
F. A. E. Hamilton, tools	60 00	
John J. Harrigan, cement, etc	36 00	
Harper Garage Co., automobile hire	19 00	
William A. Lee, expense of committee	38 60	
P. McSwiney, team and labor	25 50	
Standard Oil Co. of N.Y., oil	24 06	
Edward A. Standley, gravel	133 95	
Union Stables, automobile hire	25 00	
		$4,156 01
Labor, as per pay rolls		7,838 86
Total expenditures		$11,994 87

January 1, 1912, appropriation	$10,000 00	
December 3, 1912, appropriation	2,000 00	
Total appropriation	$12,000 00	
Total expenditures	11,994 87	
December 31, 1912, balance	$5 13	

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HIGHWAY—STONE CRUSHER

INCIDENTALS

American Express Co., express charges	$0 20	
Atlantic Junk Co., ropes, chains, etc	11 74	
John S. Baker, stock and labor	23 77	
Barrett Mfg. Co., roofing	11 40	
H. L. Bond Co., tools	40 00	
Boston & Maine R.R., freight charges	16 16	
Parker H. Chase Co., stock	8 74	
Dodge-Haley Co., stock	2 90	
Dunn's Express, express charges	50	
Dyar Supply Co., tools	21 50	
Eagle Oil & Supply Co., oil	37 50	
W. M. Farwell, agent, hose	33 65	
Zina Goodell, repairs on crusher	70	
Good Roads Mchy. Co., crusher parts	406 99	
F. A. E. Hamilton, tools	7 90	
Hawkridge Bros. Co., steel	12 13	
William A. Lee, expense of committee	10 00	
Perfect Packing Co., packing	1 00	
J. F. Pope & Son, lumber	141 95	
Ira A. Smith, repairs on crusher	5 83	
George H. Sampson Co., tools, etc	128 72	
J. J. Welch & Co., dynamite	45 00	
Whitcomb-Carter Co., tools	37 50	
Horace A. Woodbury, stock	50	
		$1,006 28
Labor, as per pay rolls		6,491 92
Total expenditures		$7,498 20

January 1, 1912, appropriation	$7,500 00
Total expenditures	7,498 20
December 31, 1912, balance	$1 80

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HIGHWAY—SALARY OF SUPERINTENDENT

Incidentals

Josiah B. Brown, salary		$1,300 00
Total expenditures		1,300 00
January 1, 1912, appropriation	$1,300 00	
Total expenditures	1,300 00	

HIGHWAY—GRAVEL SIDEWALKS

Incidentals

Beverly Building Association, ashes	$42 40	
Boston & Maine R.R., cinders	71 59	
Silas Boyce, gravel	9 00	
Crowley & Lunt, numbering streets	37 50	
Andrew Dodge, gravel	10 50	
Albert Latham, gravel	36 50	
J. F. Pope & Son, lumber	38 69	
Edward A. Standley, gravel	262 35	
Frank L. Woodberry, gravel	11 62	
Horace W. Woodberry, gravel	35 70	
		$555 85
Labor, as per pay rolls		3,242 63
Total expenditures		$3,798 48
January 1, 1912, appropriation	$3,500 00	
December 2, 1912, appropriation	300 00	
Total appropriation	$3,800 00	
Total expenditures	3,798 48	
December 31, 1912, balance	$1 52	

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HIGHWAY—ARTIFICIAL SIDEWALKS

INCIDENTALS

Beverly Times, advertising	$10 75	
Boston & Maine R.R., freight charges	502 24	
John Buckley, bricks	2,240 00	
William H. Croscup, stock and labor	4 50	
John C. Fowler, laying bricks, etc.	1,754 77	
William A. Lee, expense of committee	30 05	
Lovejoy Granite Co., curbstone	2,426 10	
J. F. Pope & Son, lumber	40	
P. McSwiney, setting curb	1,139 55	
Simpson Bros. Corp., granolithic, etc	253 03	
		$8,361 39
Labor, as per pay rolls		969 33
Total expenditures		$9,330 72
January 1, 1912, appropriation	$10,000 00	
October 4, 1912, Transfer to "Repairs on Sidewalks"	666 19	
Net appropriation	$9,333 81	
Total expenditures	9,330 72	
December 31, 1912, balance	$3 09	

HIGHWAY—BRIDGES

INCIDENTALS

F. A. E. Hamilton, stock	$9 45	
J. F. Pope & Son, lumber	267 21	
Whitcomb-Carter Co., stock	2 40	
		$279 06
Labor, as per pay rolls		146 26
Total expenditures		$425 32
January 1, 1912, appropriation	$500 00	
Total expenditures	425 32	
December 31, 1912, balance	$74 68	

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HIGHWAY—TEAM ACCOUNT

INCIDENTALS

Charles A. Baker, medicine	$1 75
John S. Baker, stock and labor	9 25
Frank E. Berry, medicine	19 50
Beverly Gas & Electric Co., lighting stables	104 04
Josiah B. Brown, allowance for automobile, etc	400 00
Jacob Burkhardt, hay, grain, etc	1,610 57
Cann & Hurlburt, stock and labor	248 90
Chase, Parker Co., supplies	57 66
W. B. Crowell, Jr., blacksmith work	120 51
C. C. Cunningham, repairs on harnesses	27 25
Parker S. Davis, hay	157 05
Samuel R. Dexter, lumber	38 50
A. Dodge & Son, Corp., hay, grain, etc.	1,599 75
Edwin A. Edwards, stock and labor	22 39
Friend Bros., blacksmith work	193 25
George H. Goudey, paint and labor	15 22
G. W. Grime, stock and labor	1 45
W. H. Griffin, rubber boots	4 50
B. L. &. H. W. Hackett, stable supplies	10 25
F. A. E. Hamilton, stable supplies	12 95
M. F. Harkins, oil, gasolene, etc	124 62
J. J. Harrigan, stock	8 00
H. S. Harris & Son, stable supplies	52 70
E. F. Hickey, repairs on harnesses	68 35
J. W. Lee & Co., repairs on lights	31 04
L. K. McRae, repairs on harnesses	12 40
New England Tel. & Tel. Co., telephone service	37 72
Overseers of Poor Dept., hay	79 45
J. F. Pope & Son, lumber	28 50
John Quigley, shoeing horses	39 70
S. S. Ravel, painting carts, etc	34 00
W. F. Smallie, supplies	6 55
Studebaker Co., of N.Y., pressure oiler	569 40

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H. M. Torrey, blacksmith work	$160 51	
Union Stables, horses	550 00	
Wakefield Chemical Co., pinoline	4 00	
Whitcomb-Carter Co., supplies	10 30	
C. T. Young, blacksmith work	47 69	
		$6,519 67
Labor, as per pay rolls		4,817 50
Total expenditures		$11,337 17
January 1, 1912, appropriation	$11,500 00	
Total expenditures	11,337 17	
December 31, 1912, balance	$162 83	

HIGHWAY—STREET WATERING

Incidentals

Barber Asphalt Co., road oil	$1,140 19	
John S. Baker, stock and labor	96	
Beverly Times, advertising	2 00	
Boston & Maine R.R., freight charges	6 76	
Gulf Refining Co., road oil	1,137 50	
F. A. E. Hamilton, supplies	85	
Lennox Mfg. Co., supplies	5 00	
Alden Speares' Sons Co., road oil	456 08	
Standard Oil Co., of N.Y., road oil	348 74	
Studebaker Bros., Corp., parts for carts	44 80	
Walworth Mfg. Co., stock	17 65	
		$3,160 53
Labor, as per pay rolls		2,037 01
Total expenditures		$5,197 54
January 1, 1912, appropriation	$4,000 00.	
August 28, 1912, appropriation	1,200 00	
Total appropriation	$5,200 00	
Total expenditures	5,197 54	
December 31, 1912, balance	$2 46	

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HIGHWAY—SURFACE DRAINAGE

Incidentals

John S. Baker, stock and labor	$35 09	
Boston & Maine R.R., freight charges	210 71	
John Buckley, bricks	572 25	
Edson Mfg. Co., power pump	133 35	
Gove Lumber Co., lumber	79 19	
William H. Griffin, rubber boots	42 50	
John J. Harrigan, pipe and cement	413 00	
Lunt-Moss Co., supplies	50	
J. F. Pope & Son, lumber	18 74	
Puritan Iron Works, castings	303 00	
Elmer Standley, rubber boots	10 50	
Edward A. Standley, gravel	2 25	
George E. Teague, pipe	1,126 44	
Whitcomb-Carter Co., pipe, tools, etc.	231 30	
		$3,178 82
Labor, as per pay rolls		3,400 85
Total expenditures		$6,579 67
January 1, 1912, appropriation	$6,000 00	
December 26, 1912, appropriation	600 00	
Total appropriation	$6,600 00	
Total expenditures	6,579 67	
December 31, 1912, balance	$20 33	

HIGHWAY—GRAVEL SIDEWALKS—WARD 6

Incidentals

Boston & Maine R.R., freight charges, etc.	$298 66	
Lovejoy Granite Co., curbstone	851 00	
P. McSwiney, setting curb	464 52	
		$1,614 18
Labor, as per pay rolls		1,385 82
Total expenditures		$3,000 00

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January 1, 1912, appropriation	$1,000 00
June 4, 1912, Transfer from "Highway . Artificial Sidewalks, Ward Six"	2,000 00
Total appropriation	$3,000 00
Total expenditures	3,000 00

HIGHWAY—ARTIFICIAL SIDEWALKS—WARD 6

January 1, 1912, appropriation	$2,000 00
June 4, 1912, Transfer to "Highway, Gravel Sidewalks, Ward Six"	2,000 00

SEWER DEPARTMENT

INCIDENTALS

Beverly Printing Co., printing	$15 00	
John Buckley, bricks	225 75	
E. M. Cahill, contracts, etc	4,013 26	
Dyar Supply Co., tools	36 90	
M. Grady & Son, contracts, etc	288 00	
F. A. E. Hamilton, tools	23 52	
J. J. Harrigan, pipe, cement, etc	61 03	
J. W. Lee & Co., stock	1 20	
P. McSwiney, contracts, etc	1,375 26	
George E. Teague, pipe	48 84	
Whitcomb-Carter Co., tools	3 80	
		$6,092 56
Labor, as per pay rolls		197 32
Total expenditures		$6,289 88

January 1, 1912, appropriation	$500 00
February 21, 1912, appropriation	1,000 00
June 13, 1912, appropriation	1,500 00
July 30, 1912, appropriation	700 00
August 28, 1912, appropriation	300 00

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November 19, 1912, appropriation	$1,800 00
December 13, 1912, appropriation	300 00
December 26, 1912, appropriation	300 00
Total appropriation	$6,400 00
Total expenditures	6,289 88
December 31, 1912, balance	$110 12

SEWER MAINTENANCE

INCIDENTALS

Almy, Bigelow & Washburn Co., stock	$0 25
American Express Co., express charges	1 95
Beverly Gas & Electric Co., electric power	313 46
Boston & Maine R.R., freight charges	1 41
Josiah B. Brown, cash paid out	4 50
A. M. Byers Co., stock	24 46
Cann & Hurlburt, building fence	131 68
J. F. Carter Co., oil clothing	5 00
CCC Fire Hose Co., hose	170 00
Desmond's Stables, automobile hire	15 00
Dyar Supply Co., tools	50 63
Eagle Oil & Supply Co., oil	17 67
H. A. Eldridge, stock and labor	2 40
Greenlaw Electric Co., stock	7 80
F. A. E. Hamilton, tools	107 57
Hoogerzeil's Express, team hire	144 00
Hydro-Palm Soap Co., stock	3 15
J. W. Lee & Co., stock and labor	4 09
John Mack, plants	3 00
Marshall & Moulton Ex. Co., express charges	2 10
Pickett & Goodwin, stock and labor	3 15
J. F. Pope & Son, lumber	57
J. C. Rauch, dinners for committee	11 60
Ira A. Smith, stock and labor	9 15
H. M. Torrey, blacksmith work	8 65

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G. Frank Uhler, stock	$2 83	
Union Stables, automobile hire	12 50	
Harry C. Webber, rubber boots	32 00	
Westinghouse Electric Co., parts for pumps	9 48	
Whitcomb-Carter Co., tools	8 96	
		$1,109 01
Labor, as per pay rolls		1,806 60
Total expenditures		$2,915 61
January 1, 1912, appropriation	$2,000 00	
July 30, 1912, appropriation	500 00	
October 3, 1912, appropriation	500 00	
Total appropriation	$3,000 00	
Total expenditures	2,915 61	
December 31, 1912, balance	$84 39	

RECONSTRUCTION OF HERRICK ST.

Incidentals

Boston & Maine R.R., freight charges	$79 99	
Cann & Hurlburt, building fences, etc	427 28	
M. Grady & Son, contract	2,055 22	
Lovejoy Granite Co., curbstone	425 93	
Edward A. Standley, gravel and sod	23 00	
		$3,011 42
Labor, as per pay rolls		300 00
Total expenditures		$3,311 42
January 1, 1912, balance from 1911	$2,736 11	
August 15, 1912, appropriation	600 00	
Total appropriation	$3,336 11	
Total expenditures	3,311 42	
December 31, 1912, balance	$24 69	

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SURFACE DRAINAGE IN BISSON ST. AND BURTON AVE.

Incidentals

John Buckley, bricks	$31 50	
Puritan Iron Works, covers and frames	77 50	
George E. Teague, pipe	78 13	
		$187 13
Labor, as per pay rolls		204 07
Total expenditures		$391 20
January 1, 1912, balance from 1911	$392 20	
Total expenditures	391 20	
December 31, 1912, balance	$1 00	

PURCHASE OF STEAM ROAD ROLLER

Incidentals

Buffalo Steam Roller Co., 1 15-ton roller	$3,800 00	
Total expenditure	$3,800 00	
March 27, 1912, appropriation	3,800 00	
Total expenditure	3,800 00	

MACADAMIZING SIMON STREET

Incidentals

Gulf Refining Co., road oil	$519 50	
Edward A. Standley, sand	3 30	
Standard Oil Co., of N.Y., road oil	96 64	
		$619 44
Labor, as per pay rolls		1,808 22
Total expenditures		2,427 66
May 23, 1912, appropriation	$2,500 00	
Total expenditures	2,427 66	
December 31, 1912, balance	$72 34	

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RECONSTRUCTION OF A PORTION OF CABOT ST.

INCIDENTALS

Barbour-Stockwell Co., stock	$23 00	
Beverly Times, advertising	8 13	
Boston & Maine R.R., freight charges	16 81	
Josiah B. Brown, cash paid	13 00	
John Buckley, bricks	315 00	
Dyar Supply Co., tools	40 40	
Globe Newspaper Co., advertising	22 95	
Good Roads Machinery Co., crusher parts,	50 00	
J. J. Harrigan, cement, etc	105 00	
M. F. Harkins, kerosene	47 60	
William A. Lee, expense of committee	12 05	
J. F. Pope & Son, lumber	4 36	
Puritan Iron Works, castings	645 05	
George H. Sampson Co., stock	5 50	
Simpson Bros., Corp., contract	6,062 37	
Ira A. Smith, stock and labor	3 75	
Edward A. Standley, gravel	3 75	
George E. Teague, pipe	351 74	
Union Stables, automobile hire	10 00	
Whitcomb-Carter Co., tools	22 60	
		$7,763 06
Labor, as per pay rolls		5,016 10
Total expenditures		$12,779 16

July 11, 1912, appropriation	$35,000 00	
Total expenditures	12,779 16	
December 31, 1912, balance	$22,220 84	

RECONSTRUCTION OF A WALL AT HERRICK ST.

Labor, as per pay rolls	$248 59
Total expenditures	$248 59

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July 23, 1912, appropriation	$250 00	
Total expenditures	248 59	
December 31, 1912, balance	$1 41	

REPAIRS ON SIDEWALKS

Incidentals

John Buckley, bricks	$1,092 00	
John C. Fowler, laying bricks, etc	434 25	
Simpson Bros., Corp., contract	828 40	
Total expenditures		$2,354 65
August 28, 1912, appropriation	$1,700 00	
October 4, 1912, transferred from Highway "Artificial Sidewalks"	666 19	
Total appropriation	$2,366 19	
Total expenditures	2,354 65	
December 31, 1912, balance	$11 54	

CONSTRUCTION OF SIDEWALK, HALE ST.

Incidentals

Andrew W. Rogers, reimbursement for share of construction of sidewalk	$350 00	
Total expenditure		$350 00
August 28, 1912, appropriation	$350 00	
Total expenditure	350 00	

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CITY FORESTER—SUPPRESSION OF LEOPARD MOTH

INCIDENTALS

J. N. Crowe, ladders	$45 00	
Eastern Chemical Co., stock	16 00	
F. A. E. Hamilton, tools	75	
		$61 75
Labor, as per pay rolls		438 25
Total expenditures		$500 00
August 28, 1912, appropriation	$500 00	
Total expenditures	500 00	

STREET SIGNS

INCIDENTALS

Baltimore Enamel and Novelty Co., signs	$152 40	
Dyar Supply Co., stock	10 50	
J. F. Pope & Son, posts	11 00	
Whitcomb-Carter Co., tools	3 98	
		$177 88
Labor, as per pay rolls		57 37
Total expenditures		$235 25
September 25, 1912, appropriation	$550 00	
Total expenditures	235 25	
December 31, 1912, balance	$314 75	

REMOVAL OF TREE, WHITNEY AVE.

Labor, as per pay roll	$22 13
Total expenditure	$22 13

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October 10, 1912, appropriation	$25 00	
Total expenditure	22 13	
December 31, 1912, balance	$2 87	

SURFACE DRAINAGE IN MECHANIC ST.

INCIDENTALS

John Buckley, bricks	$141 75	
George E. Teague, pipe	41 32	
		$183 07
Labor, as per pay rolls		516 93
Total expenditures		$700 00
September 4, 1912, appropriation	$700 00	
Total expenditures	700 00	

REMOVAL OF TREES, CABOT ST.

Labor, as per pay rolls		$142 95
Total expenditures		$142 95
November 18, 1912, appropriation	$150 00	
Total expenditures	142 95	
December 31, 1912, balance	$7 05	

WARNING SIGNS NEAR SCHOOLHOUSE LOTS

December 26, 1912, appropriation	$250 00
No expenditures	
December 31, 1912, balance	$250 00

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NUMBERING CERTAIN STREETS

December 31, 1912, appropriation	$85 00
No expenditures	
December 31, 1912, balance	$85 00

RECAPITULATION

	Total Appropriation	Total Expenditures	Balance, Dec. 31, 1912
Highway:			
General Repairs	$32,364 28	$31,205 85	$1,158 43
Specific Repairs	12,000 00	11,994 87	5 13
Stone Crusher	7,500 00	7,498 20	1 80
Salary of Superintendent	1,300 00	1,300 00	.....
Gravel Sidewalks	3,800 00	3,798 48	1 52
Gravel Sidewalks, Ward Six	3,000 00	3,000 00	.....
Artificial Sidewalks	9,333 81	9,330 72	3 09
Artificial Sidewalks, Ward Six	.....	.....	.....
Street Watering	5,200 00	5,197 54	2 46
Surface Drainage	6,600 00	6,579 67	20 33
Bridges	500 00	425 32	74 68
Team Account	11,500 00	11,337 17	162 83
City Forester:			
Maintenance	500 00	498 71	1 29
Planting and Replanting trees	300 00	297 67	2 33
Suppression of Leopard Moth	500 00	500 00	.....
Extermination of Gypsy and Brown-tail Moths	6,800 00	6,782 49	17 51
Suppression of Gypsy and Brown-tail Moths	5,000 00	5,000 00	.....
Construction of Livingston Ave	500 00	476 54	23 46

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	Total Appropriation	Total Expenditures	Balance, Dec. 31, 1912
Construction of Sidewalk, Hale St.	$350 00	$350 00	.....
Collection of Ashes	3,200 00	2,537 29	$662 71
Macadamizing Simon St.	2,500 00	2,427 66	72 34
Numbering Certain Sts.	85 00	.....	85 00
Sewer Department	6,400 00	6,289 88	110 12
Sewer Maintenance	3,000 00	2,915 61	84 39
Purchase of a Steam Road Roller	3,800 00	3,800 00	.....
Reconstruction of Herrick St.	3,336 11	3,311 42	24 69
Reconstruction of a retaining wall, Herrick St.	250 00	248 59	1 41
Reconstruction of a portion of Cabot St.	35,000 00	12,779 16	22,220 84
Repairs on Sidewalks	2,366 19	2,354 65	11 54
Warning Signs near Schoolhouse Lots	250 00	.....	250 00
Street Signs	550 00	235 25	314 75
Surface Drainage, Bisson St. and Burton Ave.	392 20	391 20	1 00
Surface Drainage in Mechanic St.	700 00	700 00	.....
Removal of Tree, Whitney Ave.	25 00	22 13	2 87
Removal of Trees, Cabot St.	150 00	142 95	7 05
	$169,052 59	$143,729 02	$25,323 57

INVENTORY

I. REAL ESTATE

Stable, sheds, etc., Roundy St.	$4,300 00	
Land, Roundy Street	3,500 00	
		$7,800 00

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Crushing plant (buildings) Cedar St. (land is property of Poor Department)	$1,000 00	
Crushing plant (buildings) Beverly Farms,	500 00	
Land Beverly Farms	1,500 00	
		$3,000 00
Total, real estate		$10,800 00

II. PERSONAL PROPERTY

a. BEVERLY FARMS STONE CRUSHER

Boiler, engine, crusher, elevator, etc	$2,900 00	
Hammers, drills and miscellaneous tools	100 00	
		$3,000 00

b. CEDAR STREET STONE CRUSHER

1 Champion Crusher, boiler, engine, etc	$3,500 00	
Steam drilling machines	300 00	
1 set platform scales	250 00	
Batteries	30 00	
Drills	100 00	
Hammers, jacks, wrenches, bars and miscellaneous tools	140 00	
		$4,320 00

c. CITY STABLES

11 horses	$2,000 00
5 two-horse tip-carts	375 00
2 one-horse tip-carts	100 00
7 watering carts	700 00
2 sanitary wagons	330 00
2 express wagons	150 00
Harnesses	275 00
Street and stable blankets	80 00
Snow plows	850 00
1 one-horse pung	50 00

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1 road machine	$100 00	
7 two-horse pungs	350 00	
1 macadam scraper	50 00	
1 street sweeper	175 00	
1 portable stone crushing plant	1,400 00	
3 steam road rollers	6,500 00	
1 scarifier	550 00	
1 pressure oil wagon	575 00	
1 power pump	125 00	
1 power pump	200 00	
1 electric pump	245 00	
2 asphalt heaters, tools, etc.	250 00	
Derricks	150 00	
Ladders	75 00	
2 gutter plows (Hannagan)	250 00	
Plows	60 00	
Lanterns	35 00	
2 Twentieth Century graders	250 00	
Office furniture	400 00	
Tools and stable supplies of all kinds	1,100 00	
		$17,750 00

d. IN HANDS OF PERSONS OUTSIDE OF DEPARTMENT

One snow plow at each of the following places:

Walter A. Caldwell, North Beverly,
Walter A. Caldwell, North Beverly (for Cherry Hill),
Stephen A. Gwinn, North Beverly,
John B. Swift, North Beverly,
Andrew Dodge, North Beverly,
William Standley, Centerville,
John H. Foster, Montserrat,
D. Linehan & Son, Prides Crossing,
Charles Foster, Beverly Cove,
Florence Driscoll, Rial Side.

Two snow plows:
William E. Elliott, in charge of work at Beverly Farms.
Total of 12 snow plows $300 00

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e. GYPSY MOTH DEPARTMENT

Two power-spraying machines, oil-burning outfits, saws, climbing irons, cutters, hammers, axes, opera glasses, rope, wrenches, scythes, bush scythes, pitch forks, bush hooks, creosote, burlap, etc., etc.	$1,000 00

RECAPITULATION

Personal Property:			
a.	Beverly Farms Stone Crusher	$3,000 00	
b.	Cedar Street Stone Crusher	4,320 00	
c.	City Stables	17,750 00	
d.	In hands of persons outside of Department	300 00	
e.	Gypsy Moth Department	1,000 00	
			$26,370 00
Real Estate			10,800 00
Total valuation			$37,170 00

IN CONCLUSION

I wish to thank His Honor the Mayor, for his assistance and co-operation during the year. I also wish to thank the Standing Committee on Streets, Sidewalks, Sewers and Electric Wires and Street Railways, together with the heads and various officials of the different City Departments, for their help which has tended to make possible the proper running of this ever increasing branch of the business of our City. To the under officials of this Department I also extend my thanks and appreciation for the manner in which their duties have been performed.

Respectfully submitted,

JOSIAH B. BROWN,

Supt. of Highways and Sewers.

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LIST OF JURORS

1912-1913

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CITY OF BEVERLY

In accordance with the provisions of Chapter 348 of the Acts of 1907, the following list of persons to serve as Jurors has been prepared by the Board of Registrars of Voters of the City of Beverly:

GEORGE P. BROWN, JOHN F. HILL,
CHARLES H. WOODBURY, LUTHER S. HERRICK,

Board of Registrars of Voters.

BEVERLY, June 20, 1912.

A

Frank W. Adams, insurance, 14 Highland Ave.
George D. Alderman, draughtsman, 35 Federal St.
Charles E. Aldrich, shoemaker, 23 Fayette St.
George F. Allen, carpenter, 138 Bridge St.
Irving W. Allen, printer, 11 Pickett St.
Edwin H. Appleton, farmer, 35 Hull St.
Fred Ashworth, designer, 66 Dane St.

B

John S. Baker, machinist, 5 Atlantic Ave.
Everard G. Barron, salesman, 4 Larcom Ave.
William E. Barter, watchman, 5 Fayette St.
John R. Bartlett, veterinary, 42 Cabot St.
Charles S. Batchelder, retired, 16 Highland Ave.
Samuel P. Bell, bowling alley, 64 Dane St.
Willis H. Bell, market gardener, 136 Balch St.

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Frank W. Bernard, broker, 195 Elliott St.
John L. Berry, apothecary, 350 Cabot St.
Roland G. Bisson, stock fitter, 15 Livingston Ave.
George P. Bowden, shoeworker, 115 Corning St.
Albert R. Braden, foreman, 41 Abbott St.
Frank Bradstreet, bookkeeper, 38 Broadway.
Fred P. Bradstreet, shoemaker, 25 Bartlett St.
Thomas B. Broughton, foreman, 22 Enon St.
Clarence E. Brown, blacksmith, 56 Dodge St.
Jeremiah F. Brown, shoeworker, 34 Rantoul St.
Louis E. Burnham, employee, 454 Cabot St.

C

Walter A. Caldwell, ice dealer, 569 Cabot St.
Wilderd E. Caldwell, gardener, 47 Dodge St.
Frank H. Cameron, insurance agent, 41 Lovett St.
Edgar C. Cann, contractor, 91 Dodge St.
George L. Cann, mason, 22 Appleton Ave.
Simeon B. Carr, carpenter, 11 Whitney Ave.
William H. Carr, foreman, 13 Lenox St.
Charles E. Carrico, stock fitter, 66 Cabot St.
George P. Carver, engineer, 62 Dane St.
Louis A. Casgrain, inventor, 32 Broadway.
Harland E. Cate, machinist, 23 Broadway.
Charles P. Chase, trader, 8 Knowlton St.
George C. Choate, finisher, 8 Winthrop Ave.
Arthur E. Clark, shoecutter, 11 Cross St.
George H. Clayton, manager, 14 Baker Ave.
George M. Cleaves, cutter, 3 Ashland St.
Frederick L. Clement, stockman, 141 Hale St.
Walter E. Colby, piano tuner, 56 Cabot St.
Caleb Cole, carpenter, 364 Cabot St.
George E. Cole, shoeworker, 4 Odell Ave.
David G. Coleman, barber, 42 Bartlett St.
Ernest L. R. Colson, shoemaker, 15 Bow St.
Frank R. Conant, broker, 10 Franklin Pl.
James F. Connolly, machinist, 441 Cabot St.
Thomas D. Connolly, contractor, 14 Oak St.

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Charles H. Connor, foreman, 18 Lenox St.
Samuel Cowgill, carpenter, 63 Bridge St.
William F. Crafts, machinist, 6 Home St.
Frederick A. Cressy, real estate, 40 Stone St.
Frederick I. Cressy, foreman, 15 Atlantic Ave.
Fred O. Cressy, milk dealer, 20 Beckford St.
Leroy Cressy, machinist, Echo Ave.
Arthur M. Cripps, bookkeeper, 42 Abbott St.
Forman A. Crosby, mason, 7 Judson St.
Norman E. Crosby, painter, 14 Lakeview Ave.
Charles P. Croscup, carpenter, 21 Knowlton St.
William B. Crowell, Jr., wheelwright, 22 Swan St.
James A. Culbert, harness maker, 238 Greenwood Ave.

D

William W. Davenport, provision dealer, 135 Dodge St.
Parker S. Davis, real estate, 215 Elliott St.
Dudley D. Day, farmer 797 Cabot St.
Samuel A. Day, farmer, 797 Cabot St.
Thomas F. Delaney, pharmacist, 361 Cabot St.
Frank A. Dennis, employee, 45½ Railroad Ave.
Howard A. Doane, carpenter, 807 Hale St.
William L. Dodd, foreman, 163 Essex St.
Arthur F. Dodge, manufacturer, 358 Cabot St.
Frederick N. Dodge, shoe cutter, 22 Prospect St.
J. Clifford Dodge, cutter, 6 Summer St.
James B. Dow, florist, 705 Hale St.
Henry W. Downing, belt-maker, 137 Balch St.
George D. Durgin, clothier, 35 Washington St.

E

Thomas A. Eastman, retired, 436 Rantoul St.
Fred F. Eaton, inspector, 496 Cabot St.
Harrison H. Eaton, inventor, 59 Lovett St.
Alwood B. Edwards, shoeworker, 37 Wallis St.
Benjamin I. Edwards, farmer, 554 Essex St.

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Edwin A. Edwards, carpenter, 5 Peabody Ave.
Frank Edwards, farmer, 266 Dodge St.
George H. Edwards, farmer, 320 Dodge St.
Stephen D. Edwards, farmer, 526 Essex St.
Francis D. Egerton, store keeper, 6 Myrtle St.
Harold A. Eldridge, painter, 7 Woodland Ave.
Charles R. Elliott, shoeworker, 24 Bow St.
Harry D. Elliott, draughtsman, 24 Whitney Ave.
Hervey Elliott, carpenter, 14 Butman St.
Horace E. Elliott, carpenter, 74 Standley St.
George A. Endicott, bookkeeper, 13 Bartlett St.
Edward Erickson, inventor, 24 Glidden St.

F

Ernest L. Farrin, clerk, 13 Pickett St.
George W. Fernald, carpenter, 38 Federal St.
William H. Ferrick, real estate, 59 Hale St.
Charles Fielder, shoeworker, 2 Home St.
George F. Fielder, farmer, 373 Cabot St.
Thomas Fitzgibbon, contractor, 40 Abbott St.
James F. Flint, cutter, 15 Green St.
Walter S. Flint, real estate, 43 Railroad Ave.
Francis J. Flynn, stable keeper, 183 Hale St.
George S. Fogg, gardener, 348 Hale St.
Samuel A. Fogg, gardener, 44 Thissell St.
George N. Foss, shoeworker, 26 Bisson St.
Arthur T. Foster, clerk, 37 Railroad Ave.
Edgar S. Foster, stenographer, 21 Bartlett St.
Frank Y. Foster, farmer, 263 Brimbal Ave.
Hezekiah A. Foster, shoeworker, 35 Cabot St.
Hollis D. Foster, clerk, 27 Ocean St.
John H. Foster, farmer, 259 Essex St.
John Y. Foster, gardener, 172 Hale St.
Elwood I. French, carpenter, 20 Pierce Ave.
Edmund G. Friend, blacksmith, 22 Myrtle St.
William P. Friend, shoemaker, 473 Rantoul St.

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G

William Galloupe, contractor, 15 Larcom Ave.
Samuel A. Gentlee, undertaker, 16 Butman St.
Joseph Brooks Gilbert, clerk, 23 Lothrop St.
Charles A. Giles, wheelwright, 141 Bridge St.
Edmund Giles, shoe dealer, 23 Wallis St.
Thomas O. Gilliatt, foreman, 107 Elliott St.
George A. Glidden, clerk, 372 Cabot St.
Frank A. Goldsmith, foreman, 14 Harrison Ave.
John B. Goldsmith, machinist, 37 Abbott St.
Fred C. Goodrich, retired, 328 Cabot St.
Dearborn J. Goodwin, painter, 72 Dane St.
George Gordon, caretaker, 25 Dodge St.
Eugene H. Gould, clerk, 7 Pickett St.
George A. Gove, treasurer, 12 McKinley Ave.
Francis P. Grant, shoeworker, 15 Dodge St.
Harry O. Gray, shoeworker, 8 Woodland Ave.
William W. Gray, farmer, 141 Elliott St.
Charles A. Greene, machinist, 26 Arthur St.
Horace E. Griffin, shoeworker, 8 Odell Ave.
Harry M. Grout, cataloguer, 16 James St.
Horton B. Gwinn, foreman, 28 West Dane St.

H

Morton C. Hadley, machinist, 14½ Washington St.
Roderick B. Hanson, shoemaker, 8 May St.
Charles G. Hardy, clerk, 35 Broadway.
Louis Hardy, trader, 776 Hale St.
Joseph B. Harlow, grain dealer, 66 Hart St.
Joseph T. Haskell, carpenter, 62 Lovett St.
Luville W. Hatch, trader, 346 Cabot St.
Roy P. Hatch, foreman, 17 Home St.
George A. Hathaway, caretaker, 34 Lothrop St.
Charles M. Hazen, carpenter, 188 Lothrop St.
Edward F. Heaphy, grocer, 10 Wellman St.
C. Archie Herrick, clerk, 20 Colon St.

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George A. Herrick, retired, 419 Cabot St.
George W. Herrick, meat dealer, 21 Federal St.
Forrest L. Higgins, manufacturer, 24 Beckford St.
Harry L. Hinkley, clerk, 1 Knowlton St.
Frank H. Hinchliffe, foreman, 10 Stone St.
Wallace C. Hobbs, shoeworker, 346 Essex St.
Charles H. Hull, painter, 119 Hart St.
Herman J. Hurlburt, contractor, 11 Woodland Ave.
Stephen D. Huntington, shoe cutter, 64 Essex St.
Benjamin Huntoon, trader, 81 Hale St.
Benjamin Hutchinson, grocer, 1½ Mulberry St.
Horace K. Hutchinson, shoeworker, 388 Cabot St.

J

Fred L. Jenness, machinist, 605 Cabot St.
William L. Jenkins, piano tuner, 113 Corning St.
Willie F. Jones, expressman, 6 Pleasant St.

K

Michael P. Kerby, shoeworker, 21 River St.
Arthur H. Kidder, market gardener, 53 Conant St.

L

Benjamin O. Larcom, agent, 1 Winthrop Ave.
Benjamin P. Larcom, bowling alley, 34 Pond St.
George W. Larcom, machinist, 15 West St.
Willie H. Larcom, driver, 15 West St.
John P. Lawrence, potter, Winthrop Ave.
Thomas H. Lawrence, heel manufacturer, 4 Highland Ave.
Charles S. Lee, farmer, 467 Cabot St.
Henry I. Lefavour, insurance, 16 Washington St.
Wallace P. Legro, foreman, 147 Lothrop St.
John H. Linehan, contractor, 2 Haskell St.
Henry M. Loomer, mechan. engineer, 2 Bay St.

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Frederick W. Lord, clerk, 25 Bow St.
William H. Lord, stock fitter, 344 Essex St.
Merton R. Lovett, salesman, 65 Cabot St.
Ernest F. Lufkin, shoeworker, 30 Pleasant St.
Thomas Lund, moulder, 86 McKay St.
William W. Lundgren, clerk, 74 Dodge St.
Walter A. Luscomb, foreman, 3 Lefavour Ave.
Patrick J. Lynch, manufacturer, 43½ Abbott St.

M

Alexander Mader, shoe cutter, 45 Cabot St.
Isaac E. Marston, trader, 41 Essex St.
George T. May, shoeworker, 13 Ocean St.
George W. McNutt, barber, 42 Chase St.
Charles H. Mitchell, retired, 16 Elliott St.
Hervey F. Moore, trader, 11 Beckford St.
Frank A. Morgan, shoe cutter, 5 Stewart Ave.
George E. Morgan, carpenter, 4 Judson St.
Hervey C. Moulton, trader, 16 Pierce Ave.

N

John H. Nash, shoeworker, 15 Webber Ave.
Elbridge Norwood, insurance agent, 7 Highland Ave.
James J. Nugent, stable keeper, 11 Vine St.
John J. Nugent, manufacturer, 340 Essex St.

O

Samuel E. Ober, carpenter, 34 Central St.
Benjamin L. Obear, yachtsman, 3 Sylvester Ave.
James H. Owen, sailmaker, 245 Elliott St.
George Osborne, peddler, 38 Standley St.

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P

Francis L. Palmer, last maker, 36 Bow St.
Charles L. Patch, farmer, 500 Essex St.
Fred F. Perkins, contractor, 19 Briscoe St.
Charles G. Pickett, plumber, 102 Lovett St.
George E. Pickett, clerk, 12 Union St.
Forrester H. Pierce, plumber, 22 West St.
Frederick W. Porter, painter, 9 Lovett St.
Isaac E. Porter, carpenter, 13 Winthrop Ave.
William F. Porter, shoe packer, 21 Winthrop Ave.
James F. Potter, gardener, 578 Cabot St.
Joseph W. Preston, shoeworker, 485 Rantoul St.
John Prince, bookkeeper, 191 Hale St.

R

Isaac O. Ray, gardener, 95 Hale St.
Benjamin F. Raymond, carpenter, 57 Butman St.
Frank S. Raymond, shoeworker, 7 Pleasant St.
William H. Raymond, cutter, 24 Central St.
Fred G. Robinson, insurance broker, 10 South St.
James F. Robinson, machinist, 21A Herrick St.
Clarence Rogers, shoeworker, 12 Lakeview Ave.
Edward W. Rogers, trader, 11 Pierce Ave.
Edward B. Rowell, retired, 22 Woodland Ave.

S

George A. Sands, mechanic, 25 Mulberry St.
Albion F. Sawtelle, engineer, 10 Charles St.
Frederick Schofield, machinist, 10 Lenox St.
Charles H. Shattuck, machinist, 41½ Bridge St.
Ralph C. Simmons, inventor, 26 Pierce Ave.
Charles E. Smith, blacksmith, 10 Chestnut St.
Elmer Standley, trader, 21 West St.
Halsey D. Standley, agent, 7 West Dane St.

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William W. Standley, farmer, 409 Cabot St.
William J. Starr, insurance, 43 Stone St.
William M. Stevens, stabler, 292 Cabot St.
George C. Stickney, retired, 32 Lovett St.
William H. Stocker, laborer, 2 Elm St.
William O. Stone, shoemaker, 21 Hale St.
Charles F. Symonds, shoemaker, 33 Thorndike St.

T

James K. Tappan, landscape gardener, 55 Balch St.
Gilman W. Taylor, shoeworker, 12 Myrtle St.
James W. Taylor, machinist, 14 Mulberry St.
George E. Teague, salesman, 25 Liberty Ave.
George Todd, jeweler, 20 James St.
Lawrence E. Topham, inventor, 29 Eastern Ave.
Charles B. Trask, shoemaker, 29 Wallis St.
Charles W. Trask, real estate, 9 Corning St.
Edgar F. Trask, jeweler, 210 Bridge St.
A. Norton Tyler, shoemaker, 236 Dodge St.
Frederick W. Tyler, shoemaker, 21 Pickett St.

W

Arthur W. Wallis, cutter, 12 Highland Ave.
Charles W. Wallis, caretaker, 2 Judson St.
John M. Whitcomb, trader, 9 Endicott St.
Ernest Whitehead, clerk, 8 Home St.
George N. Whitman, carpenter, 30 Ocean St.
Ezra P. Williams, mason, 13 High St.
Howard P. Williams, carpenter, 125 Hart St.
Edgar E. Woodberry, gardener, 10 Cedar St.
Frank A. Woodbury, farmer, 634 Cabot St.
Hezekiah O. Woodbury, manufacturer, 13 Washington St.
Timothy W. Woodbury, carpenter, 170 Hale St.
Charles E. Woodman, machinist, 6 Milton St.

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LAYING OUT

OF

CERTAIN STREETS

OF THE

CITY OF BEVERLY, MASS.

1912

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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CITY DOCUMENT, No. 78, 1912

LAYING OUT OF CERTAIN STREETS

LAYING OUT OF MCKAY ST. (EXTENSION)

Beginning at point *A* on said plan, said point *A* being at the intersection of the south line of Balch St. and east line of McKay St., thence running in a north-easterly direction a distance of 58.14 feet to point *B* on said plan, point *B* being a bound-stone and said line *AB* being a continuation of the east line of McKay St., thence making an angle of 9 degrees, 54 minutes and 30 seconds with line *AB*, and running in a north-easterly direction a distance of 651.45 feet to point *C* on said plan, thence in a same straight line a distance of 1247.9 feet to point *D* on said plan, thence along the arc of a circle having a radius of 270.72 feet a distance of 199.91 feet to point *E* on said plan, said point *E* being in the southerly line of County Way, so-called, laying out McKay St. 50 feet westerly of the line *ABCD*. Beginning again at point *F* on said plan, said point *F* being 50 feet westerly of point *D*, thence running along the arc of a circle having a radius of 19.34 feet a distance of 46.57 feet to point *G* on said plan, laying out all the land between lines *DE* and *FG* in said McKay St.

Approved July 5, 1912.

CITY DOCUMENT, No. 283, 1912

LAYING OUT OF MECHANIC ST.

Beginning at the corner of Roundy and Mechanic Sts., and lettered "*A*" on said plan, said point "*A*" being at the intersection of the south line of Roundy St. and west line of Mechanic

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St. and 158.5 feet distant from the easterly line of Chase St., thence making an angle of 100 degrees and 39 minutes with Roundy St. and running a distance of 385.80 feet to point "*B*" on said plan, said line *AB* making an angle of 93 degrees and 33 minutes with the north line of West Dane St., and said point "*B*" being 236 feet distant from the east line of Chase St., laying the street out twenty (20) feet in width easterly of line *AB* along that portion which abuts the property belonging to Sarah E. Hyde and thirty (30) feet in width along the remaining abutting properties, easterly of line *AB*.

AUGUST 12, 1912.

Returned by the Mayor with his objections thereto in writing.

On the question of the adoption of the order, the objections of the Mayor notwithstanding, seven aldermen voted in the affirmative and two in the negative, and none absent, and the necessary two-thirds having voted therefor, the same has therefore the force of law.

CITY DOCUMENT, No. 43, 1912.

LAYING OUT OF WESTERN AVE.

Beginning at a point marked *A* on said plan, said point *A* being on the intersection of the west line of Bridge St. and the south line of Western Ave., and distant 330.7 feet northerly from a stone bound on said west line of Bridge St., thence continuing in the same straight line across Western Ave. to point *B*, thence making an angle with Bridge St. and running a distance of about 755.4 feet to an angle called point *C*, thence making an angle with line *BC* and running a distance of 800.00 feet to point *D* at the corner of Shortell Ave., laying said Western Ave. out 50.0 feet in width south of the line described.

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AUGUST 26, 1912.

Returned by the Mayor with his objections thereto in writing.

On the question of the adoption of the order, the objections of the Mayor notwithstanding, eight Aldermen voted in the affirmative, one in the negative, and the necessary two-thirds having voted therefor, the same has therefore the force of law.

CITY DOCUMENT, No. 502, 1912

LAYING OUT OF CRESCENT AVE.

Beginning at point *A* on said plan, said point *A* being a bound-stone on the easterly side of Kernwood Ave., located in accordance with the plan, thence running along the arc of a circle, whose radius is 10.72 feet, a distance of 13.75 feet to point *B* on said plan, thence in a south-easterly direction a distance of 203.21 feet to point *C*, thence along the arc of a circle having a radius of 50.21 feet, a distance of 70.87 feet to point *D*, said point *D* being a stone-bound on the westerly line of Winthrop Ave. Beginning again at point *E* on the easterly line of Winthrop Ave., as shown on plan, thence running along the arc of a circle having a radius of 17.0 feet a distance of 29.49 feet to point *F*, thence along a line tangent to *EF* a distance of 128.5 feet to point *G* on said plan, thence making an angle with *FG*, and running in a south-easterly direction a distance of 636.1 feet to point *H*, or high water mark. Beginning again at point *I*, which is located on the easterly line of Kernwood Ave., thence running along the arc of a circle having a radius of 37.34 feet a distance of 69.43 feet to point *J*, thence along a line tangent to *IJ*, a distance of 315.5 feet to point *K*, thence making an angle with *JK*, and running a distance of 630.7 feet to point *L*, laying out the street not less than 50.0 feet in width at any point.

Approved September 13, 1912.

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CITY DOCUMENT, No. 372, 1912

LAYING OUT OF WARREN ST.

Beginning at point *A* on said plan, said point *A* being a stone-bound on the southerly line of Essex St., thence running in a south-westerly direction along the east line of Warren St., a distance of 784.46 feet to point *B*, said point being a bound-stone in the north line of Newbury St., thence making an angle of 48 degrees and 20 minutes with line *AB*, running along the north line of Newbury St. in a westerly direction a distance of 88.7 feet to point *C*, thence in an easterly and northerly direction along the arc of a curve having a radius of 9.83 feet and tangent of 21.92 feet a distance of 22.59 feet to point *D*, a stone-bound, thence along the west line of Warren St. in a north-westerly direction a distance of 660.15 feet to point *E*, a stone-bound, thence in a more north-westerly direction along the arc of a curve having a radius of 9.39 feet and a tangent of 20 feet, a distance of 21.25 feet to point *F*, a stone-bound, thence along the south line of Essex St. in two courses, a distance of 82.98 feet to point *A*, to point of beginning, laying out Warren St., a width of 49.87 feet at its northern end, and 49.91 feet at its southern end.

Approved November 8, 1912.

CITY DOCUMENT, No. 373, 1912

LAYING OUT OF LOWELL ST.

Beginning at a stone-bound in the north line of Essex St., said point being marked *A* on plan, thence making an angle of 90 degrees with the north line of Essex St. and running in a northerly direction a distance of 100.0 feet, to point *B* on said plan, a stone-bound, thence in a more northerly direction along

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the arc of a curve having a radius of 392.98 feet and tangent of 124.85 feet a distance of 241.77 feet to point *C*, a bound-stone, thence in a more northerly direction along a line tangent to the previously described curve a distance of 253.27 feet to point *D*, a bound-stone, said point *D* being on the southerly line of Odell Ave., laying out Lowell St. a width of 40.0 feet in its entire length, parallel to and westerly of the previously described line *ABCD*.

Approved November 8, 1912.

CITY DOCUMENT, No. 864, 1912

Laying out of Appleton Ave.

Beginning at point *A* as shown on plan, said point *A* being a bound-stone on the west line of Baker Ave. and east line of Appleton Ave., thence in a westerly and southerly direction along the arc of a circle tangent to the west line of Baker Ave., having a radius of 5.83 feet and central angle of 137 degrees 30 minutes, a distance of 13.99 feet to a bound-stone as represented on said plan by letter *B*, thence in a southerly direction, tangent to line *AB*, a distance of 255.36 feet to a bound-stone represented on said plan by letter *C*, thence in a north-westerly direction, making an angle of 55 degrees 2 minutes with line *BC*, a distance of 206.64 feet to a bolt in the ledge, represented on said plan by letter *D*, thence in a north-westerly direction, making an angle of 166 degrees 34 minutes 30 seconds with line *DC*, a distance of 110.85 feet to a bound-stone as represented by letter *E* on said plan, thence along the arc of a curve, having a radius of 74.63 feet and central angle of 43 degrees 39 minutes and tangent to line *ED*, a distance of 56.86 feet to a bound-stone, represented on said plan by letter *F*, thence in a westerly direction, tangent to line *FE* a distance of 86.20 feet to a bound-stone, called point *G* on said plan, thence in a more northerly direction, making an angle of 156 degrees 17 minutes 30 seconds with line *GF*, a distance of 68.13 feet to a bound stone called *H* on said plan, thence along the arc of a circle having a radius of 40.0 feet and central angle of 44 degrees 0 minutes and tangent to line *HG*, a distance of 30.71 feet to point *I* on said plan, thence in a northerly direction,

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tangent to line *IH*, a distance of 156.10 feet to a bound-stone, called *J* on said plan, thence along the arc of circle having a radius of 307.25 feet and central angle of 32 degrees 9 minutes and tangent to line *JI*, a distance of 194.85 feet to a bound-stone called *K* on said plan, thence in a north-easterly direction, tangent to line *KJ* a distance of 61.53 feet to a bound-stone called *L* on said plan, thence along the arc of a circle, having a radius of 6.89 feet and central angle of 118 degrees 10 minutes 30 seconds, and tangent to line *LK* a distance of 23.72 feet to a bound-stone, called *M* on said plan, said bound-stone being on the south line of Columbus Ave.

Beginning again at point *N* on said plan, point *N* being on the west line of Baker Ave. and west line of Appleton Ave. and 74.10 feet north of point *A*, thence in a southerly direction a distance of 218.25 feet to a bound-stone called *O* on said plan and parallel to and 40.0 feet distant from line *BC*, thence along the arc of a curve having a radius of 10.42 feet and central angle of 124 degrees 58 minutes and tangent to line *ON* a distance of 22.72 feet to a bound-stone, called *P* on said plan, thence in a north-westerly direction, tangent to curve *PO*, a distance of 105.15 feet to point *Q* on said plan, thence along various northerly courses and parallel to and 40.0 feet distant from line *EFGHIJK*, through points marked *RSTUV* to point *W* on said plan, thence in a north-easterly direction tangent to line *WV* a distance of 92.8 feet to point *X* on said plan, point *X* being on the south line of Columbus Ave.

Said Appleton Ave. is intended to be laid out 40.0 feet in width in its entire length, with the exception of the places otherwise previously described, which are wider than 40.0 feet.

Approved December 24, 1912.

CITY DOCUMENT, No. 75, 1912

Laying out of James St.

Beginning at a bound-stone marked *B* on said plan, said bound-stone being located on the east line of Pratt Ave. and the north line of James St., thence making an angle of 90 degrees 1

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minute 30 seconds with Pratt Ave. and running a distance of 192.13 feet to a bound-stone marked *H* on said plan, in an easterly direction, thence turning, making a deflection angle of 77 degrees 38 minutes with line *BH*, and running in a southerly direction a distance of 292.53 feet to point *I* on said plan. Said described line *BHI* is the northerly and easterly line of James St., the southerly and westerly line is 40.0 feet distant and parallel to line *BHI*.

Approved January 3, 1913.

CITY DOCUMENT, No. 75, 1912

Laying out of Pratt Ave.

Beginning at point *A* on said plan, said point *A* being a bound-stone situated on the southerly line of Essex St. and easterly line of Pratt Ave., thence making an angle of 90 degrees with Essex St. and running in a southerly direction a distance of 217.83 feet to a bound-stone shown on the plan as point *C*, thence in a more easterly direction, making a deflection angle of 12 degrees 22 minutes with line *AC*, to point *D* on said plan a distance of 232.37 feet from point *C*, point *D* being on the easterly line of Pratt Ave. and on the northerly line of Butman St. This is the description of the east line of Pratt Ave.

Beginning again on the east line of Essex St. and the west line of Pratt Ave. at a bound-stone marked *E* on said plan, said bound-stone being 45.15 feet west of bound-stone marked *A* on said plan, thence making an angle of 88 degrees 35 minutes 30 seconds with the east line of Essex St. and running in a southerly direction a distance of 200.0 feet to a bound-stone marked *F* on said plan, thence in a more easterly direction, making a deflection angle of 12 degrees 5 minutes with line *EF*, to point *G* on said plan, a distance of 258.39 feet, said point *G* being an iron pin in ledge and located on the north line of Butman St. and the west line of Pratt Ave.

Approved January 3, 1913.

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CITY DOCUMENT, No. 655, 1912

Laying out of Eastern Ave.

Beginning at the junction of the north line of Bridge St. and the east line of Eastern Ave., thence making an angle of 128 degrees 52 minutes with Bridge St., and running a distance of 1388.33 ft. to Northern Ave., laying said Eastern Ave. out a distance of 40.0 ft. in width in its entire length.

On the west side of said street at its junction with Bridge St., the corner will be rounded with a curve having a tangent of 30.0 ft. and length of 31.8 ft.

On the west side of said street at its junction with Northern Ave. the corner shall be rounded with a curve having a tangent of 30.0 ft. and length of 36.73 ft.

Approved, November 8, 1912.

CITY DOCUMENT, No. 655, 1912

Laying out of Northern Ave.

Beginning at the junction of the south line of Elliott St. and the east line of Northern Ave., thence running in a southwesterly direction a distance of about 290.0 ft. to the junction of the south line of Eastern Ave. and the east line of Northern Ave., said last-named point being 1388.33 ft. from Bridge St., all in accordance with plan hereinafter referred to and laying out said Northern Ave. 40.0 ft. wide in its entire length.

Approved, November 8, 1912.

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ORGANIZATION

OF THE

CITY GOVERNMENT

OF THE

CITY OF BEVERLY, MASS.

1913

BEVERLY:
THE BEVERLY PRINTING CO.
1913

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GOVERNMENT

OF THE

CITY OF BEVERLY

FOR 1913

MAYOR

HON. HERMAN A. MACDONALD

ALDERMEN

AT LARGE

WILLARD O. WYLIE,	31 Pierce Ave.
JEREMIAH F. BROWN,	40 Rantoul St.
LOUIS S. SMITH,	27 Lovett St.

WARD ONE

JAMES MCPHERSON,	39 Wellman St.

WARD TWO

JOHN B. GOLDSMITH,	37 Abbott St.

WARD THREE

MARTIN R. LANE,	20 Pond St.

WARD FOUR

FRANK L. WHIPPLE,	60 Dane St.

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WARD FIVE

WILLIAM C. BLAISDELL, 14 Enon St.

WARD SIX

CHARLES H. HULL, 119 Hart St.

President of the Board, WILLARD O. WYLIE
Clerk of the Board, LUTHER S. HERRICK
City Messenger, WILLIAM R. TUCKER

STANDING COMMITTEES OF THE BOARD OF ALDERMEN

Finance and Appropriations, and Bonds.—Aldermen Wylie, Lane and Goldsmith.

Accounts and Printing.—Aldermen Hull, Blaisdell and Brown.

Police and Licenses.—Aldermen Smith, Whipple and Hull.

Claims and Ordinances.—Aldermen Lane, Wylie and Smith.

Streets, Sewers, Sidewalks, Electric Wires and Street Railways.—Aldermen Goldsmith, Whipple and Smith.

Fire Department, Fuel and Street Lights.—Aldermen Whipple, Lane and Wylie.

Public Property.—Aldermen McPherson, Goldsmith and Blaisdell.
Elections and Returns, Rules and Orders.—Aldermen Blaisdell, McPherson and Brown.

State and Military Aid.—Aldermen Brown, Hull and McPherson.

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BOARDS

ASSESSORS

Theodore A. Holmes, term expires 1913.
John M. Murney, term expires 1914.
Charles E. Riva, term expires 1915.

BOARD OF HEALTH

M. R. Jerome Crowley, term expires 1913.
Joseph E. Herrick, term expires 1914.
J. William Voss, M.D., term expires 1915.

COMMISSIONERS OF SINKING FUNDS

Joseph C. Kilham, term expires January 31, 1914.
John L. Saltonstall, term expires January 31, 1915.
Benjamin D. Webber, term expires January 31, 1916.

COMMISSIONERS OF TRUST FUNDS

Parker S. Davis, Charles E. Ober, terms expire 1913.
Albert Boyden, term expires 1914.
Joseph C. Kilham, term expires 1915.
Charles F. Lee, treasurer.

BOARD OF MANAGERS OF PUBLIC CEMETERIES

Eben Day, term expires first Monday of March, 1914.
Clarence Rogers, term expires first Monday of March, 1915.
William Galloupe, term expires first Monday of March, 1916.
Clerk, Supt. of Cemeteries, ex-officio.

ENGINEERS OF FIRE DEPARTMENT

Robert H. Grant, chief; John J. Wittenhagen, clerk; John M. Publicover, terms expire May 1, 1914.

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OVERSEERS OF THE POOR

James A. Wright, term expires 1913.
Frank A. Woodbury, term expires 1914.
William C. Morgan, term expires 1915.

PARK COMMISSIONERS

Joseph W. Preston, term expires 1913.
Charles P. Tindley, term expires 1914.
Willard B. Publicover, term expires 1915.

REGISTRARS OF VOTERS

John F. Hill, term expires April 30, 1914.
George P. Brown, term expires April 30, 1915.
Charles H. Woodbury, term expires April 30, 1916.
Luther S. Herrick, clerk and member ex-officio.

SCHOOL COMMITTEE

Charles A. Baker, *chairman*.
Melvin E. Davenport, *clerk*.
Mary B. Smith, Charles A. Baker, and Leonard B. Moulton, terms expire 1913.
George D. Alderman and Melvin E. Davenport, terms expire 1914.
James B. Dow and Benjamin Huntoon, terms expire 1915.
Robert O. Small, superintendent of schools.

TRUSTEES OF THE PUBLIC LIBRARY

Charles L. Dodge, Louis D. Webber, Joseph C. Kilham, terms expire January 31, 1914.
Miss Elisabeth P. Sohier, Miss Katharine P. Loring, Allen H. Bennett, terms expire January 31, 1915.
Benjamin R. Bulkeley, William R. Driver, George E. Woodberry, terms expire January 31, 1916.

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WATER BOARD

Robert Robertson, term expires 1913.
John J. Nugent, term expires 1914.
John L. Saltonstall, term expires 1915.

OFFICERS

(*See also Boards*)

City Auditor, Henry S. Parker, term expires 1914.
City Clerk, Luther S. Herrick.
City Collector, Andrew S. Edwards.
City Electrician, William H. Greenlaw.
City Engineer, Harrie L. Whitney.
City Messenger, William R. Tucker.
City Physician, Norman M. MacLeod, M.D.
City Solicitor, Guy C. Richards.
City Treasurer, Charles F. Lee.
Clerk of Board of Health, George H. Thissell.
Clerk of Committees, Frederick B. Browning.
Clerk of Overseers of the Poor, James A. Wright.
Clerk of Water Board, Otis L. Lunn.
Inspectors of Animals, Horace D. Lambert, John J. Riordan.
Inspector of Buildings, John A. Ober.
Inspector of Milk, Henry E. Dodge, 2d.
Inspector of Plumbing, Frederick W. Herrick.
Sealer of Weights and Measures, Robert J. Rafferty.
Secretary of School Committee, Melvin E. Davenport.
Superintendent of Almshouse, Walter Farnham.
Superintendent of Highways and Sewers, Josiah B. Brown.
Superintendent of Schools, Robert O. Small.
Superintendent of Water Works, James W. Blackmer.
Engineer at Pumping Station, Herbert T. Conant.
Fence Viewers: Nathan B. Goldsmith, Andrew Stanley, William Galloupe.

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ASSISTANTS IN OFFICES OF DEPARTMENTS

City Clerk, Mabel B. Perry.
City Treasurer, Ella R. Curtis.
City Collector, Beulah M. Higgins.
Mayor, Marion P. Hinkley.
School Committee, Sophia Corning.
Water Board, Sigrid L. Stensrud.

ROSTER OF THE BEVERLY POLICE DEPARTMENT

Chief, S. Walter Woodberry.

Captain, Edward F. Wallis.

Patrolmen: Ferdinand W. Bray, Webster K. Bray, Joseph F. Clayton, William H. Coakley, John F. Couhig, Ernest I. Ellis, Alonzo L. Goodhue, Timothy J. Hayes, Warren O. Jones, George H. Merrill, Charles W. Mitchell (retired), Harry S. Monies, Alfred G. Munsey, Roland M. Pickett, William L. Pickett, Louis E. Shaw, John A. Stone, Dominick Tahaney, John S. Welch, Calvin L. Williams, Frederick R. Wilson, Michael H. Wittenhagen.

Reserve Officers: Edward F. Glidden, Emery B. Hooper, Eugene Marley, Clifford W. Standley, William J. Tobin.

Special Officers: James J. Fagan, Urban H. Horne, Daniel J. Murphy.

Janitor: Frederick H. Beckford.

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